UniVista User's Guide

Release 1.0

Inside...

- Navigating UniVista
- Configuring UniVista parameters
- Performing Device Management Tasks Using UniVista
- Monitoring and Maintaining UniVista

P R O L I P H I X

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Preface

The *UniVista User's Guide* describes how to manage Proliphix network devices remotely using UniVista, the Proliphix Device Management Software.

Audience

This guide is intended for managers and/or facilities managers or those responsible for managing multiple thermostats remotely in small or medium size buildings, multiple buildings, or corporate environments.

As a reader of this guide you should be familiar with the use of an Internet browser (for example Internet Explorer or Mozilla) and a working knowledge on general data networking principles. You should have prior experience with establishing a local area network in either a home or office. You should understand the basic principles of connecting patch panels and switches as well as configuring features on a firewall router.

Be sure to read the *Software Release Notes* (SRN) that accompanies this product. The SRN contains the most current product information and requirements.

Proliphix Documentation Library

The following documentation is available for Proliphix products. *Software Release Notes* ship with each product. For ordering information, see Technical Publications (page -xvi).

Proliphix Product	Title	Audience
NT10e, NT20e, NT100e/h, NT120e/h, NT130e/h, NT150e/h, and NT160e/h	*Proliphix Thermostat Installation Guide*	For customers who want to install the Basic and Professional series thermostat.
EPA 20 and EPA 60	*Proliphix Ethernet Power Adapter Installation Guide*	For customers who want to install the EPA-20 or EPA-60 Ethernet Power Adapter.
NT10e, NT20e, NT100e/h, NT120e/h, NT130e/h, NT150e/h, and NT160e/h	*Proliphix Remote Management Setup and User's Guide*	For customers who want to remotely manage their thermostats through secure authentication at the Proliphix website.
TM220e/h and TM250e/h	*Thermal Management Series Network Thermostat Configuration Guide (TM220e/h and TM250e/h)*	For customers who want to access and control their Proliphix Thermal Management series thermostat through either the Thermostat Device Interface or more specifically through the browser-based Thermostat Management Interface (TMI).
NT100e/h, NT120e/h, NT130e/h, NT150e/h, and NT160e/h	*Professional Series Network Thermostat Configuration Guide (NT100e/h, NT120e/h, NT130e/h, NT150e/h, and NT160e/h)*	For customers who want to access and control their Proliphix Professional series thermostat through either the Thermostat Device Interface or more specifically through the browser-based Thermostat Management Interface (TMI).
NT10e and NT20e	*Basic Series Network Thermostat Configuration Guide (NT10e and NT20e)*	For customers who want to access and control their Proliphix Basic series thermostat through either the Thermostat Device Interface or more specifically through the browser-based Thermostat Management Interface (TMI).
NT10e, NT20e, NT100e/h, NT120e/h, NT130e/h, NT150e/h, NT160e/h TM220e/h, and TM250e/h	*UniVista Installation Guide*	For customers who want to install UniVista.
NT10e, NT20e, NT100e/h, NT120e/h, NT130e/h, NT150e/h, NT160e/h TM220e/h, and TM250e/h	*UniVista User's Guide*	For customers who want to manage their Proliphix devices remotely using UniVista.

Conventions

This guide uses the following conventions, when applicable:

Description	Convention and Example
Commands or keywords, file or path names	**Boldface** font
Variable parameters for which you supply values	<*courier italics*>
Options and arguments for which you supply values	[ ]
Information that the user must enter	**`Courier Bold`** font
Screen messages or system output	`Courier Regular` font
Selecting a menu item	**Menu** => **Option**
Book titles, new terms, and emphasized text	*Italics*

Note *Additional information that may apply to the subject text.*

Caution *Proceed carefully to avoid possible equipment damage or data loss.*

Warning *Proceed carefully to avoid possible personal injury.*

Tip *Provide helpful suggestions.*

Technical Publications

Customers can obtain product documentation on our web site at http://www.proliphix.com/Documenation.aspx.

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- Location and number of wires attached to the Proliphix thermostat

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Chapter 1

Understanding and Installing UniVista

This chapter provides an overview of UniVista. It also describes the hardware, software, and network operating requirements, as well as the different types of licensing UniVista supports.

Specifically, it describes the following sections:

- Overview (page 1-2)
- Operating Requirements (page 1-4)
- UniVista Time Synchronization (page 1-5)
- Licensing (page 1-6)

Overview

UniVista is a java-based application that enables you to organize, configure, and manage multiple devices (thermostats) at the same time in order to streamline your day-to-day operations. Using UniVista, you can manage a number of devices installed throughout a large geographic area from one main location.

UniVista provides a clean and simple graphical interface used to manage a few or hundreds of Proliphix Network Thermostats that may be located across multiple geographically separated facilities. Paired with Proliphix Network Thermostats, UniVista offers a complete HVAC monitoring and control solution with unprecedented ease-of-use for HVAC management in any small to medium-sized facility.

The graphical client interface is communicated to the user's desktop or laptop computer after an authenticated user login. The UniVista client interface organizes all enterprise Network Thermostats neatly in a familiar Windows-style folder hierarchy and clearly displays the most pertinent thermostat status along with any alarm or alert notifications. The thermostat status is periodically updated automatically making total enterprise thermostat monitoring easy and efficient.

Function Frames are used to control a single or group of Network Thermostats and are purposely similar to the respective Network Thermostat Web pages. Function Frame parameters are easily modified through convenient drop-down menus, which provide for unprecedented ease of schedule programming and HVAC settings changes. For more information on Function Frames, see Accessing the Management Functions (page 4-2).

Configuration files (or Templates) enable you to save settings that you wish to store for application to other groups of Network Thermostats. You can save an unlimited number of Schedule Configurations or HVAC Configurations. For more information on Configuration files, see Using Configuration Files (page 5-21).

User access to UniVista may be limited by the Administrator to only those devices that are within the responsibility of the user. Control of any devices outside the user's account privileges are restricted. For more information about user access, see Understanding Account Permission Levels (page 2-13).

The following is a list of UniVista features and benefits:

- Features
  - Hierarchical Device Organization
  - Single or Group Device Control
  - Functional or Geographical
  - Thermostat Grouping
  - Immediate Visual Alarm Notification
  - Continual Device Status Monitoring
  - Stored Schedule Configurations
  - Stored HVAC Settings Configurations
  - Hierarchical User Account Management
  - Familiar Functional Thermostat Control
  - E-mail or Text Message Fault Reporting
  - Standards Based TCP/IP Communications
- Benefits
  - Leverages both the enterprise data network and the Internet
  - Administer common changes to multiple thermostats
  - Save predefined common or specific device settings
  - Restrict user access privileges
  - Save groups of selected thermostats

Operating Requirements

This section lists the hardware, software, and network requirements for accessing UniVista.

Note

Prior to configuring and managing devices, you must know the IP address for each device. Use Appendix A, Configuration Worksheet to record the information.

Hardware Requirements

To run UniVista, the following minimum hardware is required:

- Microsoft Windows XP Professional, Service Pack 2
- Windows Server 2003 R2 (32 bit version only, 64 bit version not supported)
- 1 GB of RAM, 200 MB of hard disk space, Intel Pentium 4/AMD equivalent or greater processor

Note

Proliphix recommends a minimum of a 19" landscape monitor.

Software Requirements

To log into UniVista remotely, you must have the following:

- Internet Explorer 6.x or Firefox 1.x.
- Java Runtime Environment (JRE) version 1.5.0_12 or 1.5.0_14

Note

The JRE is automatically installed by Java Web Start when the client is invoked. If you are behind a firewall and unable to invoke access, the JRE has been included on the UniVista Installation CD in the Client directory. For more information, contact Technical Support (page -xvi).

Network Requirements

To support UniVista, your network must meet the following requirements:

- If the server is behind a firewall, you must have a port forward configured on the HTTP port and the SSL port back to UniVista.
- A DNS name for the server (see step 2 on page 2-2).

UniVista Time Synchronization

The UniVista Server synchronizes the time on all of the thermostats based off the local PC's time setting.

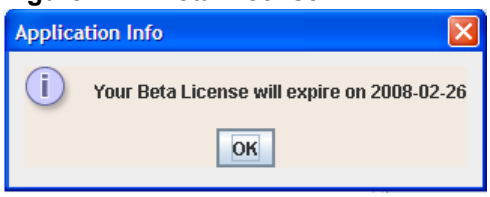
The server should be basing its time off an NTP service to insure proper time which in turn is broadcast out to the thermostats.

Every night at midnight, the UniVista Server polls all the thermostats and time synchronizes them based on their current time zone settings.

Licensing

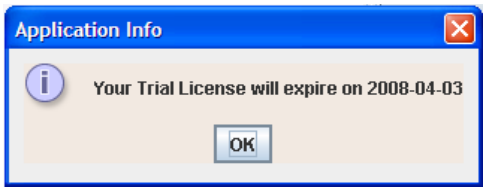
UniVista supports three types of licensing: **Beta**, **Trial**, and **Server**. A **Beta** license expires on a specific date. When you have a **Beta** license then each time you log into UniVista a dialog similar to the one show below appears indicating when your license expires. See Figure 1-1.

Figure 1-1 Beta License



A **Trial** license expires 30 days from the time UniVista was installed. When you have a **Trial** license then each time you log into UniVista a dialog similar to the one shown below appears indicating when the license is due to expire. See Figure 1-2.

Figure 1-2 Trial License



A **Trial** license allows for up to 100 devices to be configured using UniVista and 5 concurrent users. For example, if 2 users are logged in as the admin user then this counts as 2 users.

Note

*A **Server** license does not expire, therefore no dialog appears.*

Once a license has expired, a dialog appears indicating the license has expired. You are able to access UniVista, however you are not able to manage the folder tree or configure devices using the Function Frame until the license subscription is updated. To update the license subscription, see Updating the License Subscription (page 5-36).

Chapter 2

Navigating UniVista

This chapter describes how to navigate UniVista and understand account permissions.

Specifically, it describes the following sections:

- Accessing UniVista (page 2-2)
- Understanding the Menu Bar (page 2-4)
- Understanding the Management Tabs (page 2-4)
- Understanding the Folder Tree (page 2-7)
- Summary of Selecting a Single Device or Mulitple Devices (page 2-12)
- Understanding Account Permission Levels (page 2-13)

Accessing UniVista

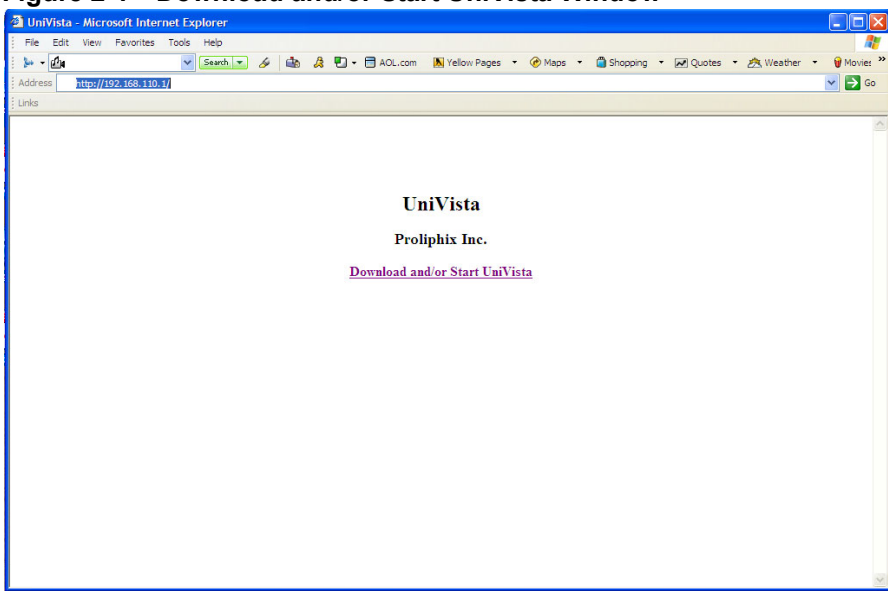
To access UniVista:

1 Open a browser window.

2 Enter **`http://<server IP address>`** in the browser window.

The **Download and/or Start UniVista** window appears. See Figure 2-1.

Figure 2-1 Download and/or Start UniVista Window

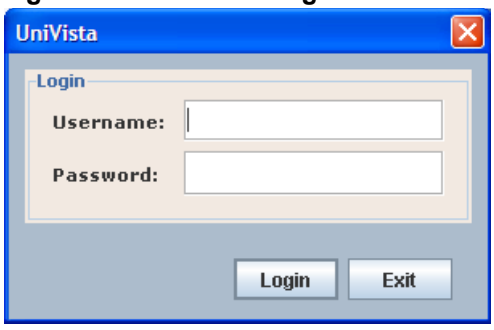


3 Click **Download and/or Start UniVista**.

Note *If the **Warning - Security** window appears, click **Always trust content from this publisher** then click **Run** to verify this window does not appear again.*

The **UniVista** login window appears. See Figure 2-2.

Figure 2-2 UniVista Login Window



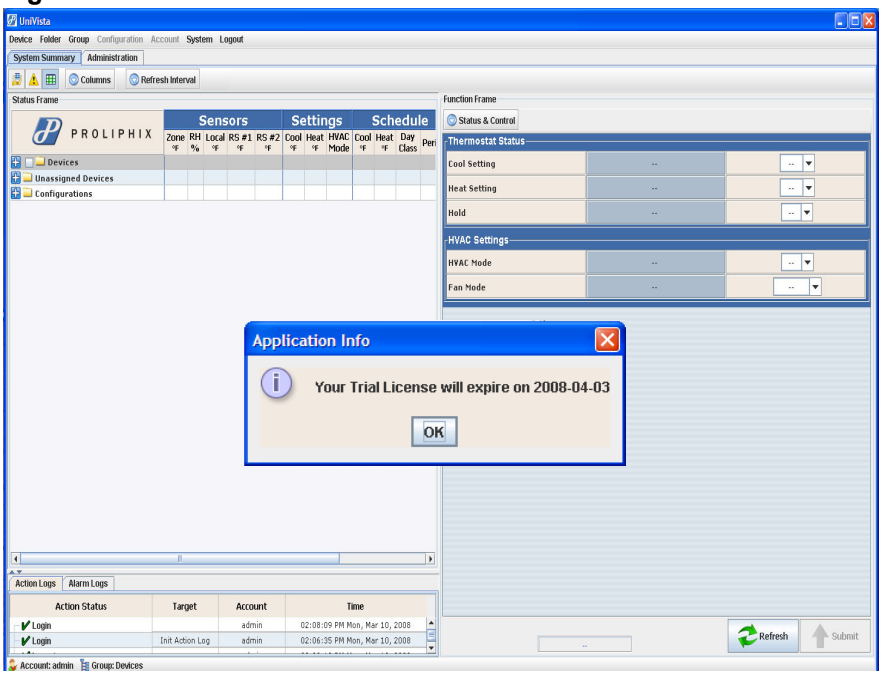
4 Enter **admin** in both the **Username** and **Password** fields.

Note *After you log in as the Administrator then you can modify the password.*

5 Click **Login**.

The **UniVista** main window appears. See Figure 2-3.

Figure 2-3 UniVista Main Window



The **Application Information** window also appears and displays the license information specific to the client. For more information, see Licensing (page 1-6).

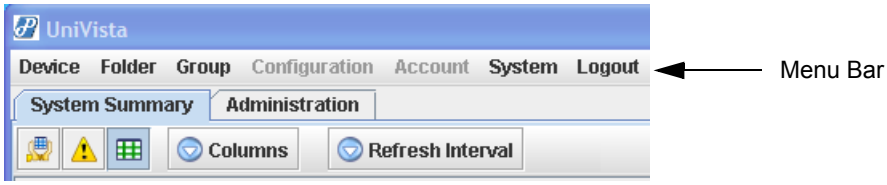
6 Click **OK**.

Note *For information about updating your license, see Updating the License Subscription (page 5-36).*

Understanding the Menu Bar

The main menu bar (see Figure 2-4) is displayed at the top of the UniVista screen, with the current location (active window) displayed with a blue outline. From this menu, you can perform various management tasks, as well as end your current session.

Figure 2-4 Menu Bar



Many of the primary menus, for example: **Device**, **Folder**, **Group**, **Configuration**, **Account**, and **System** contain a drop-down list that you can use to navigate to different windows and perform functions specific to that menu item. For example, using the **Device** menu you can add, delete, and edit devices.

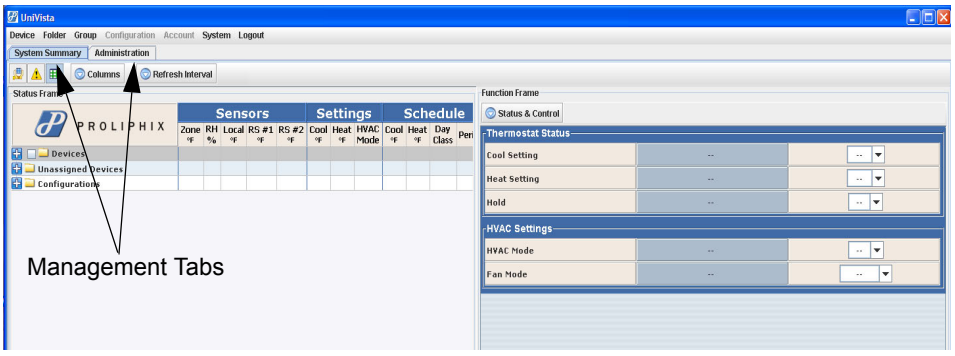
Understanding the Management Tabs

UniVista is divided into two management tabs (see Figure 2-5):

System Summary - Used for device, schedule, and alarm management. For more information on the System Summary tab, see System Summary Tab (page 2-5).

Administration - Used for account/permission management. For more information on the Administration tab, see Administration Tab (page 2-6).

Figure 2-5 Management Functions



System Summary Tab

The System Summary management tab (see Figure 2-5) allows you to manage and schedule your devices, as well as monitor alarm activity. It is divided into the following two frames:

Status Frame - Displays the folder tree that contains all the devices organized by location as well as their current status and settings. For more information about the folder tree, see Understanding the Folder Tree (page 2-7).

Function Frame - Used to configure the devices and access the log files. For more information about the Function Frame, see Accessing the Management Functions (page 4-2).

Table 2-1 describes the icons located under the System Summary tab.

Table 2-1 System Summary Tab Icons

ICON	Click to...
	Display the columns in the Status Frame to the lowest amount of space needed for that column to be displayed.
	Display all the devices with alarms in the folder tree.
	Display and hide the Function Frame.
	Select which column(s) you want to display in the Function Frame.
	Select how often you want the screen to automatically refresh: 15 Seconds. 30 Seconds, 45 Seconds, 1 Minute, or 5 Minutes.

Administration Tab

The Administration management tab allows you to configure and manage user accounts.

Table 2-2 describes the icons located under the Administration tab.

Table 2-2 Administration Tab Icons

ICON	Click to...
	Add a user account.
	Associate a user account and folder.
	Edit a user account.
	Delete a user account.

Note

For more information on managing user accounts, see Managing Accounts (page 5-7).

Understanding the Folder Tree

Each management tab uses a navigation hierarchy displayed as a “folder tree” (see Figure 2-6) to manage the information with which it is associated. The folder tree looks similar to the directory structure in Windows Explorer.

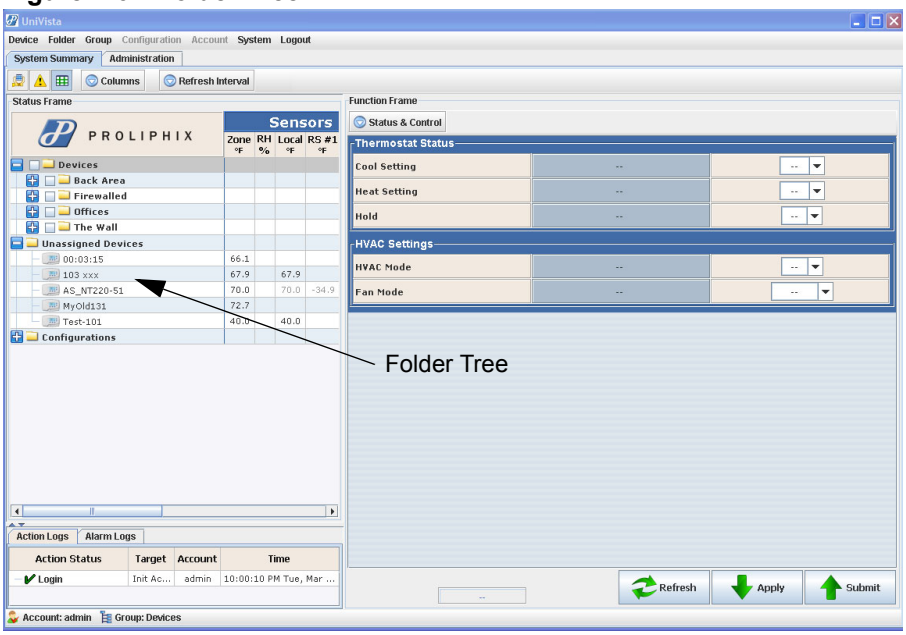
In the:

- System Summary tab, the folder tree is displayed in the Status Frame and is divided into three main folders:
  - **Devices** - Displays all the devices that have been assigned to a specific folder.
  - **Unassigned Devices** - Displays all the devices that have not been assigned to a folder.
  - **Configurations** - Displays the various configuration files you create and store. For more information, see Using Configuration Files (page 5-21).
- Administration tab, the folder tree is displayed in the Accounts Frame.

Note

UniVista displays only those folders associated with the specific user’s account permission level to which they are assigned. For more information about user accounts, see Managing Accounts (page 5-7).

Figure 2-6 Folder Tree



Each folder may contain sub-folders and/or devices. The folders expand and collapse and you can navigate through the folder by:

- double-clicking anywhere on the folder line.
- clicking the or to the left of the folder icon.

Note

You can manage each Proliphix device individually by accessing the panel associated with each device. To save time, UniVista groups certain management tasks and enables you to apply these tasks to multiple devices at the same time.

Although you can create custom names for folders, Proliphix recommends using a six-level hierarchical structure similar to the one shown below:

Region (Massachusetts)

County (Middlesex County)

Town (Bedford)

School (Bedford High School)

Building (Building A)

Floor (First Floor)

Understanding Modes of Operation Using Single Device Selection and Group Device(s) Selection

UniVista supports the following two modes of operation for selecting devices:

Single Device Selection - For information on selecting a single device, see Single Device Selection Mode (page 2-9).

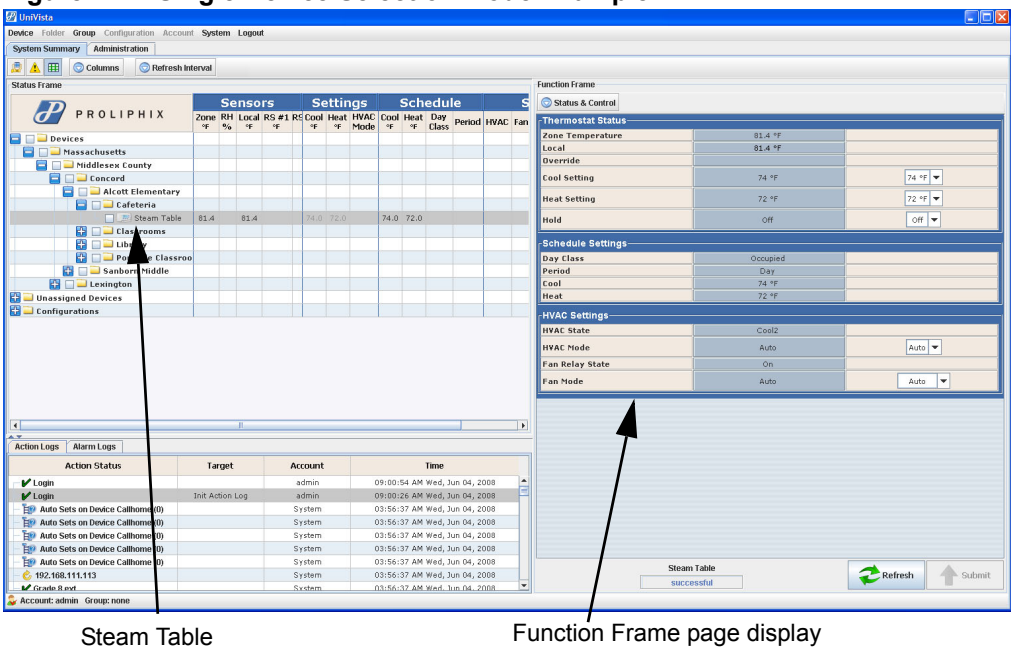
Group Device Selection - For information on selecting multiple devices, see Group Device(s) Selection Mode (page 2-10).

Single Device Selection Mode

A Single Device selection occurs when you click and highlight the name of an individual device but do not click (check) the box in front of the device name. When you select a single device it displays its current status across the Status Frame page, as well as the selected Function Frame page.

For example, in Figure 2-7 **Steam Table** is highlighted (notice the box is not checked) and therefore displays all its information on both the Status Frame page and the Status & Control information on the Function Frame page.

Figure 2-7 Single Device Selection Mode Example



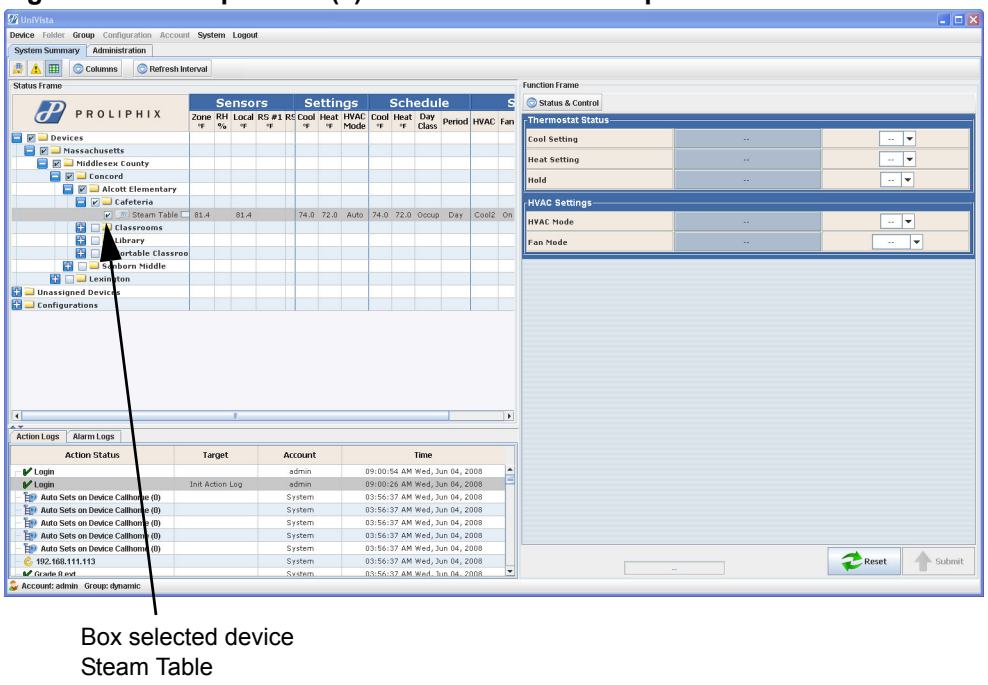
Note *In **Single Device Selection Mode**, you can monitor and configure that specific device only.*

Group Device(s) Selection Mode

A Group Device selection occurs when you click (check) the box next to each device. As soon as you click the box in front of a device it is considered to be in Group mode (Group View). When you select one or more devices by clicking the box in front of the device(s), it displays its current status across the Status Frame page, however the Function Frame page does not display any specific information. Whether you select a single device or multiple devices, the Function Frame displays "--" in all the fields, which indicates that each device in the group may be configured differently.

For example, in Figure 2-8 the **Steam Table** box is clicked (checked) and the line is highlighted, therefore all its information is displayed on the Status Frame page. However, the Status & Control information on Function Frame page displays "--" in all the fields.

Figure 2-8 Group Device(s) Selection Mode Example



Note

*In **Group Device Selection Mode**, you can monitor and configure one or more devices at a time, which is referred to as "bulk" or "multiple" configuration changes. For more information, see Performing Bulk or Multiple Configuration Changes (page 2-11).*

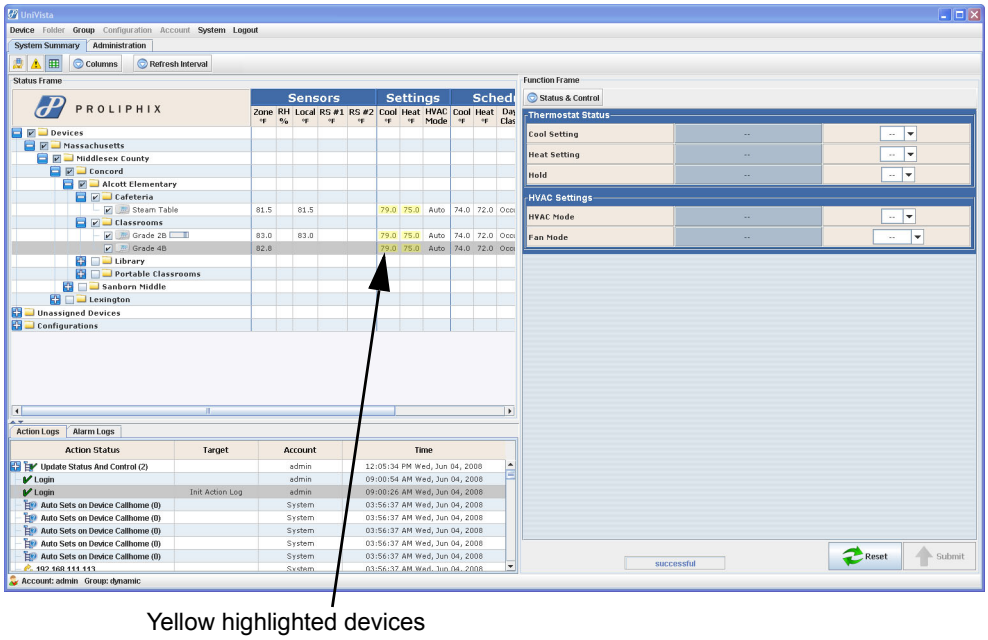
Performing Bulk or Multiple Configuration Changes

This feature enables you to make configuration changes to multiple devices at the same time. You can select multiple devices and make a change or changes to certain parameters. When you submit this change, all clicked (checked) devices (or Group members) receive this same change at the same time. This allows you to update or change device settings at multiple remote locations with one single submission.

For example, you have a need to change the heat setting on three devices and each device is on their own separate floor (1st FL, 2nd FL & 3rd FL) in the building. You can simply click (check) the box for each device. Go to the Function Frame page and set the heat to the new temperature you want all three devices set to and click **Submit**. All three devices are updated simultaneously. This eliminates the need to go to three different devices on your system and make the changes individually or manually go to each thermostat on each floor and make the changes.

For example, Figure 2-9 displays three devices where their heat/cool temperatures are changed simultaneously by the one command. It also displays those changes in yellow highlight, which indicates the change took place and is in the override condition temporarily.

Figure 2-9 Bulk Configuration Changes Example



Summary of Selecting a Single Device or Mulitple Devices

To select a single device or multiple devices:

1. Click the **System Summary** management tab.
2. From the folder tree, do one of the following to identify the device(s) you want to add:
   - To select a single device, click the name of the device and verify there is not a check in the box.
   - To select multiple devices, click the boxes next to each device.
   - To select a specific group of devices, load the appropriate group. For information about loading groups, see Loading a Group (page 5-16).

Note

You can also add devices to and remove devices from a group. For more information, see Adding Devices to and Removing Devices from a Group (page 5-17).

Note

If multiple devices are selected because a group is loaded or boxes are checked and you highlight a device outside of the group then you are unable to make changes to that single highlighted device or to the group. If you want to make changes to the highlighted device then you must first unload the group. If you want to make change to the group then you must first highlight a member of the group.

Note

If you select a single device then Function Frame displays the configuration information for that specific device. If you select more than one device then Function Frame displays "--" in all the fields indicating that each device in the group may be configured differently.

Understanding Account Permission Levels

UniVista supports three different levels of accounts and permissions. These permissions are associated with a user's hierarchy in the folder tree and determine the actions the user can perform and the window(s) they can view and/or access and edit. UniVista supports the following account permission levels:

Administrator - Has ability to do perform all functions: manipulate the folder tree, apply configuration changes to one or more devices, manage the application settings, and administer accounts.

Note

There may be only one Administrator account.

Manager - Has ability to apply application changes to one ore more devices.

User - Has ability to view only the folder/devices to which they are assigned.

Note

Users cannot make any changes to any devices within the folders to which they are assigned.

Chapter 3

Configuring UniVista Parameters

This chapter describes how to initially configure UniVista, which includes system setup information, adding folders, and adding devices to the folders.

Specifically, it describes the following sections:

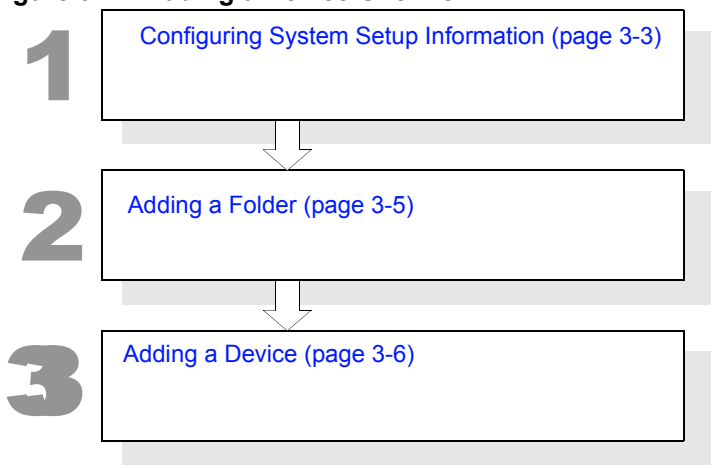
- Configuring System Setup Information (page 3-3)
- Adding a Folder (page 3-5)
- Adding a Device (page 3-6)

Note *This chapter lists the tasks in the order in which they should be performed to add a device.*

Note *Only the Administrator may perform any of the tasks listed in this chapter.*

Figure 3-1 outlines the necessary steps to add a device to UniVista and shows the menu path to access each step. You should perform each task in the order shown in Figure 3-1.

Figure 3-1 Adding a Device Overview



Configuring System Setup Information

From the Administration management tab you can add the SMTP Server IP Address and contact E-mail address.

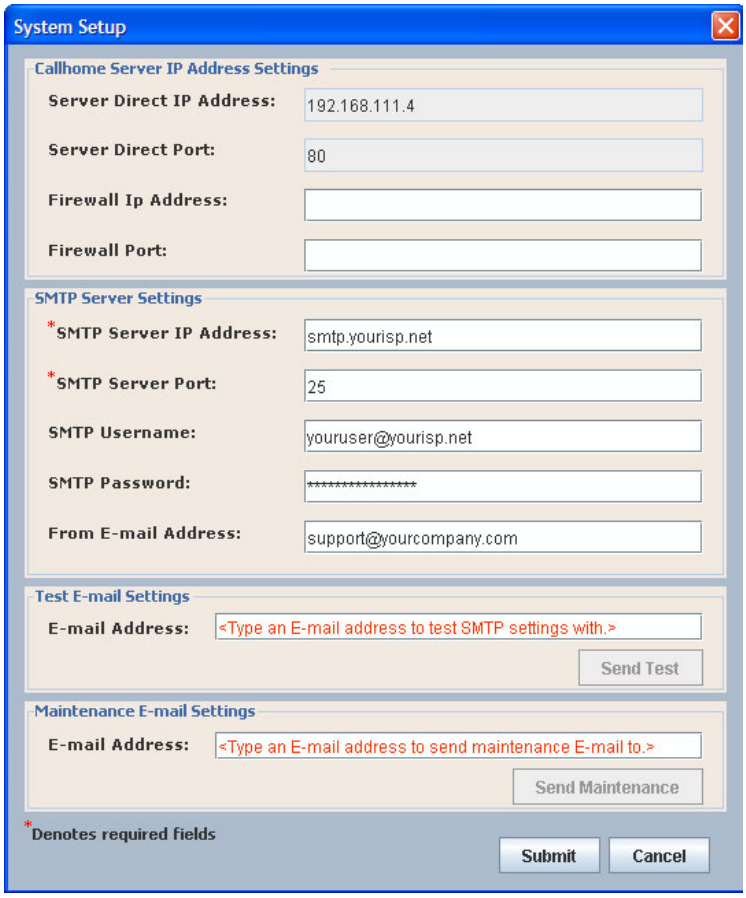
To configure the System Setup information:

1 Click the **Administration** management tab.

2 Select **System** => **System Setup**.

The **System Setup** window appears. See Figure 3-2.

Figure 3-2 System Setup Window



3 Complete the fields as described in Table 3-1.

Table 3-1 Administrations - System Setup Fields

Field	Description
Callhome Server IP Address Settings	
Server Direct IP Address	The IP address of the UniVista server. This may be a local IP address if your UniVista server is on your local network (LAN) or may be a remote IP address if your UniVista Server is at a remote site. **Note**: This Server Direct IP Address is determined automatically to match the given MAC address and cannot be configured.
Server Direct Port	The port on which UniVista is listening for HTTP requests. **Note:** The default port used is port 80 and cannot be configured.
Firewall IP Address	The IP address of the server as seen on the public side of the firewall, if a firewall exists. Consult your IT professionals for this address information.
Firewall Port	The port of the server as seen on the public side of the firewall, if a firewall exists. Consult your IT professionals for this address information.
SMTP Server Settings	
SMTP Server IP Address	The SMTP server IP address, which is the same as the SMTP Server IP Address or DNS name.
SMTP Server Port	The SMTP server port. **Note:** The default port used is 25 and the port address may be configured.
SMTP Username	The SMTP username, if needed, which is the username associated with your SMTP Server provider. **Note:** This field is left blank if your SMTP server does not require authentication.
SMTP Password	The SMTP password, if needed, which is the password associated with your SMTP Username. **Note:** This field is left blank if your SMTP server does not require authentication.
From E-mail Address	The E-mail address UniVista uses to notify the SMTP server.
Test E-mail Settings	
E-mail Address	The E-mail address UniVista uses to test the SMTP settings. When you click **Send Test** then a test E-mail is generated and sent to this address. **Note:** This E-mail address is not stored in the database.
Maintenance E-mail Settings	
E-mail Address	The E-mail address UniVista uses to forward the logs for diagnostic information. **Note:** This E-mail address is not stored in the database.

4 Click **Submit** to save the information.

Adding a Folder

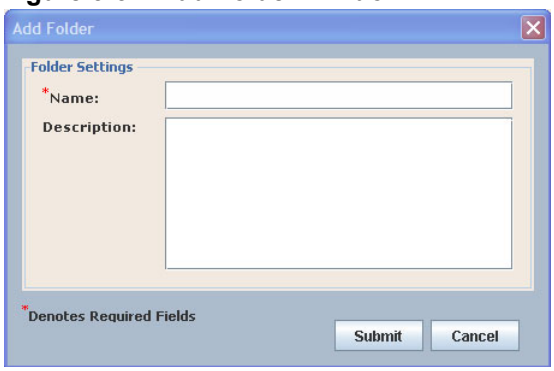
You can add a folder from the main menu, as well as from the folder tree itself.

To add a new folder:

1. Click the **System Summary** management tab.
2. Click the folder into which you want to add a folder.
3. Do one of the following:
   - Right-click and select **Add Folder**.
   - From the main menu, select **Folder** => **Add Folder**.

   The **Add Folder** window appears. See Figure 3-3.

Figure 3-3 Add Folder Window



4. Enter a **Name** (required) and **Description** (optional) for the new folder.
5. Click **Submit**.

   The folder appears beneath the higher level folder in the folder tree.

Note *You cannot rename or delete the three highest level folders:* ***Device****,* ***Unassigned Devices****, and* ***Configurations****.*

Adding a Device

You can add a device to a folder from the main menu, as well as from the folder tree itself.

To add a device to a folder:

1 Click the **System Summary** management tab.

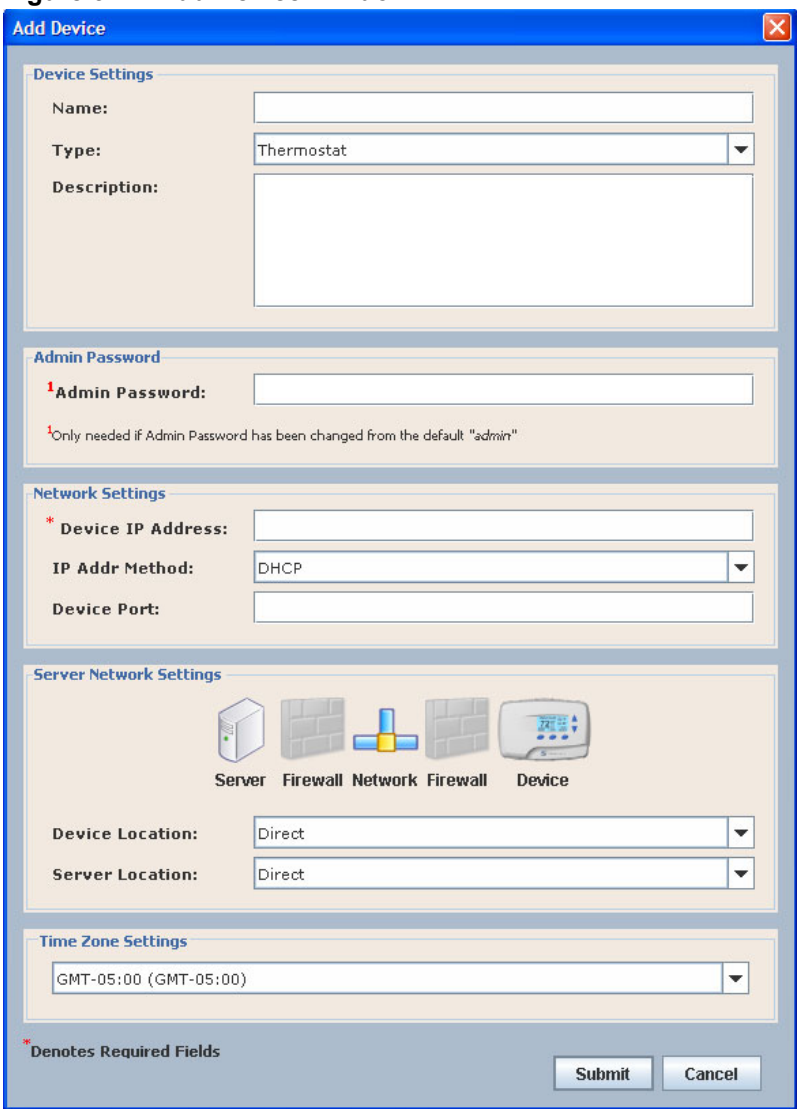
1 Click the folder into which you want to add a device.

2 Do one of the following:

- Right-click and select **Add Device**.
- From the main menu, select **Device** => **Add Device**.

The **Add Device** window appears. See Figure 3-4.

Figure 3-4 Add Device Window



3 Complete the fields as described in Table 3-2.

Table 3-2 Add Device Fields

Field	Description
Device Settings	
Name	Complete this field to have UniVista set the device's name when the device is added. If this field is left blank, the current device name is preserved.
Type	The hardware device identifier.
Description	Complete this field to record information about the device such as physical location, control area, etc. **Note:** The information is stored in UniVista and not in the device itself.
Admin Password	
Admin Password	Complete this field to specify the Administrator password of the device it is different from the default **`admin`**. **Note:** This does not change the Administrator password.
Network Settings	
Device IP Address	The direct IP address of the device if there is no firewall located between the UniVista server and the device. If there is a firewall then this is the IP address of the firewall.
IP Addr Method	The dynamic (DHCP) or static assignment.
Device Port	The direct port of the device if there is no firewall located between the UniVista server and the device. If this field is left blank then the default value of 80 is used. If there is a firewall then this is the firewall port to which the device has been mapped.
Server Network Settings	
Device Location	Specifies if communication from the UniVista server to the device must pass through a firewall. ■ If there is no firewall between the UniVista server and the device then choose **Direct**. ■ If there is a firewall then choose **Behind Firewall**. **Note:** This is only for the direction from the UniVista server to the device.
Server Location	Specifies if communication from the device to the UniVista server must pass through a firewall. ■ If there is no firewall between the device and the UniVista server then choose **Direct**. ■ If there is a firewall then choose **Behind Firewall**. **Note:** This is only for the direction from the device to the UniVista server.
Time Zone Settings	Specifies the time zone in which the device is physically located.

4 Click **Submit**.

The device is listed within the folder in the folder tree.

Example 1

Figure 3-5 is an example of a simple network setup where the UniVista server and all devices are located on a local area network. There may be separate Ethernet segments as shown below (192.168.111.x, 192.168.112.x), but all devices are directly accessible from the UniVista server.

Figure 3-5 Example 1 - Simple Network

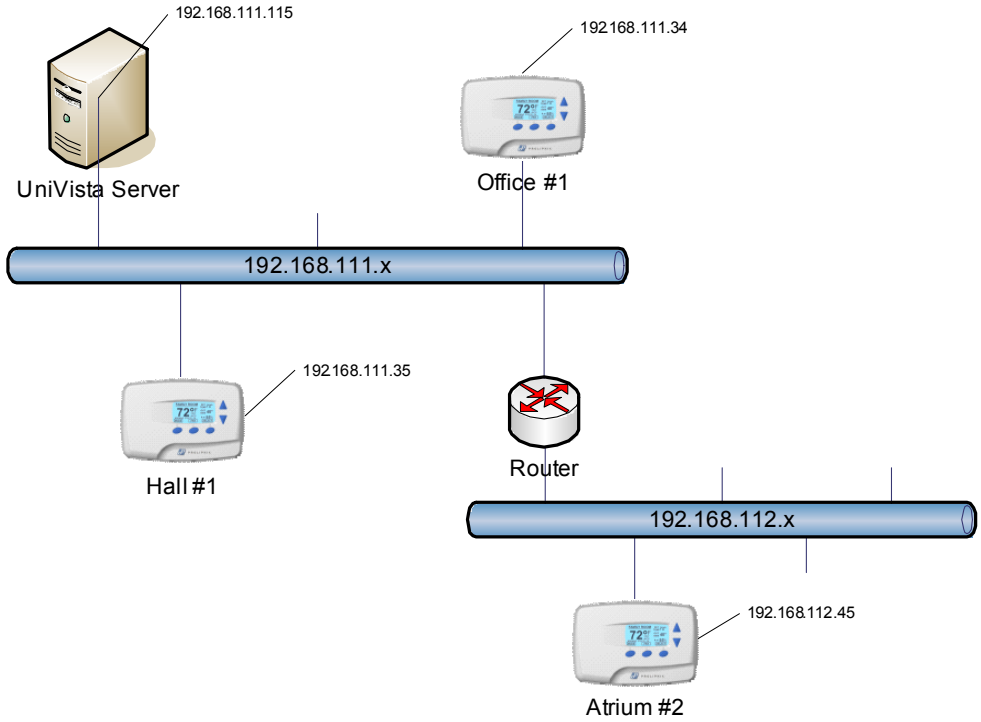
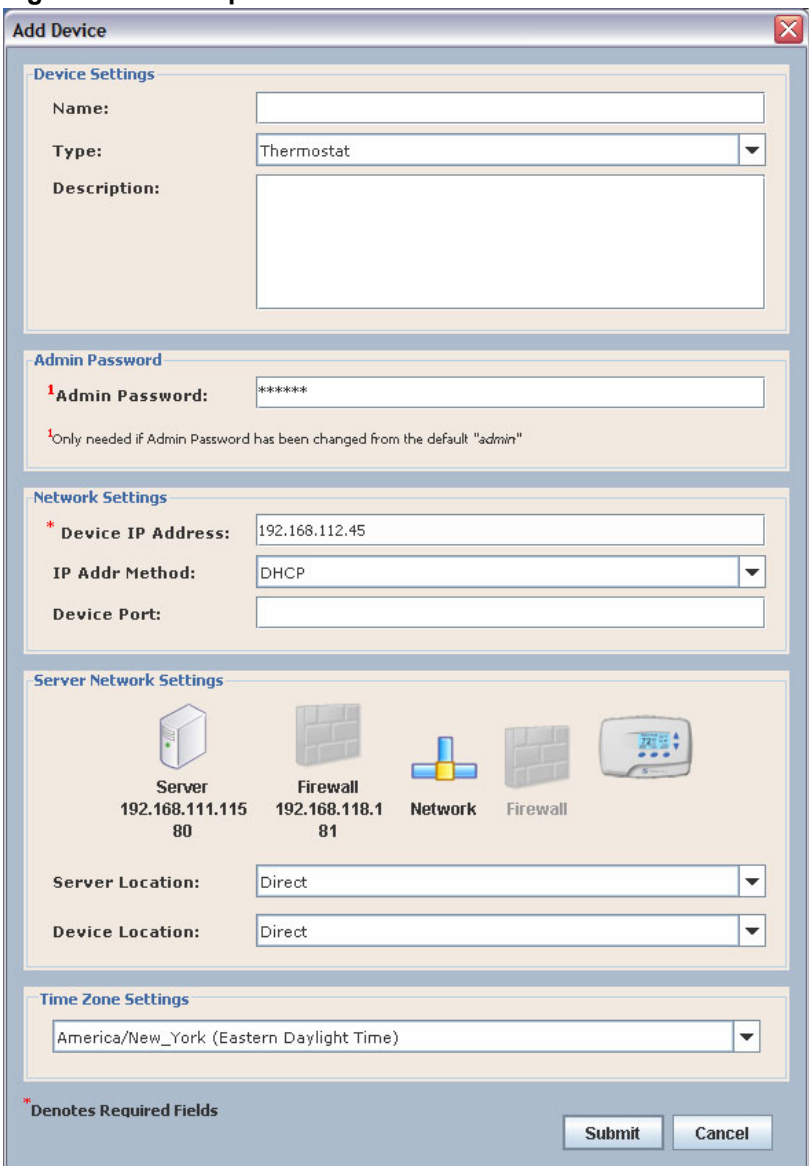


Figure 3-6 shows the Add Device window for adding the thermostat labeled Atrium #2 shown in Figure 3-5. The Atrium #2 thermostat has a non-default admin password. Both the Server Location and Device Location fields are set to Direct. The Server Network Settings shows both firewalls disabled since there is no firewall in this device addition. However, the Server Firewall shows an IP address because the Server Firewall field has been set in the System Setup dialog.

Figure 3-6 Example 1 - Add Device Window



Example 2

Figure 3-7 shows an example of a network configuration that contains firewalls in front of the devices. This situation can occur when different departments within an organization have firewalls to control access to their local networks. Note that there is no firewall in front of the UniVista server and on the diagram the Port Forwarding information to allow access to the devices.

Figure 3-7 Example 2 - Single Firewall

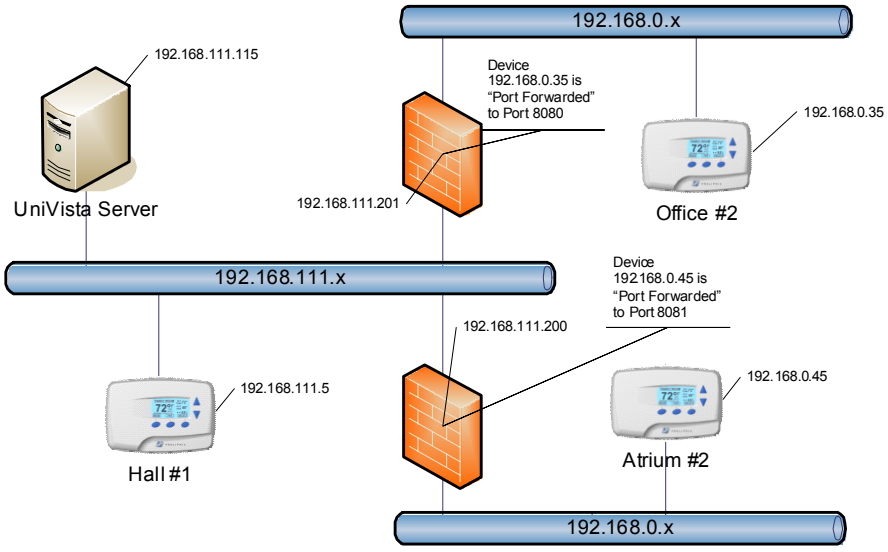
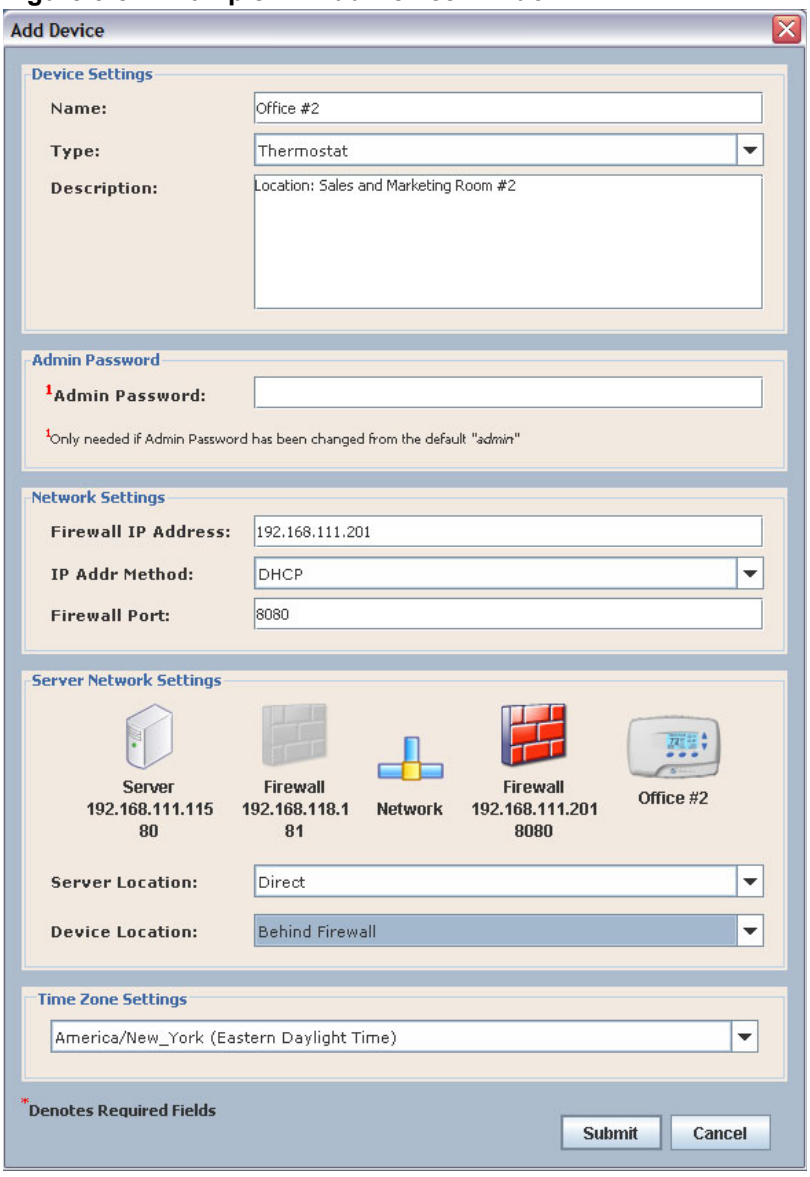


Figure 3-8 shows the Add Device window for adding the thermostat labeled Office #2 shown in Figure 3-7. In this example, the device was just installed and the Name field is filled in so the device is assigned a name during setup. The Admin Password field is blank since the admin password is the default value. Note how in the Server Network Settings that the Device IP Address line has changed to Firewall IP Address. This is because Device Location was set to Firewall. The value of the IP address is set to that of the firewall and the Firewall port is set to 8080 to correspond to the port forwarding setup.

Figure 3-8 Example 2 - Add Device Window



Example 3

Figure 3-9 shows a network with firewalls located at both the UniVista server and at the devices. In this example, The UniVista server is located in the Main Office location. The devices are located locally within the Main Office and at remote store locations. The Internet is used to tie the store locations to the Main Office.

Figure 3-9 Example 3 - Double Firewall

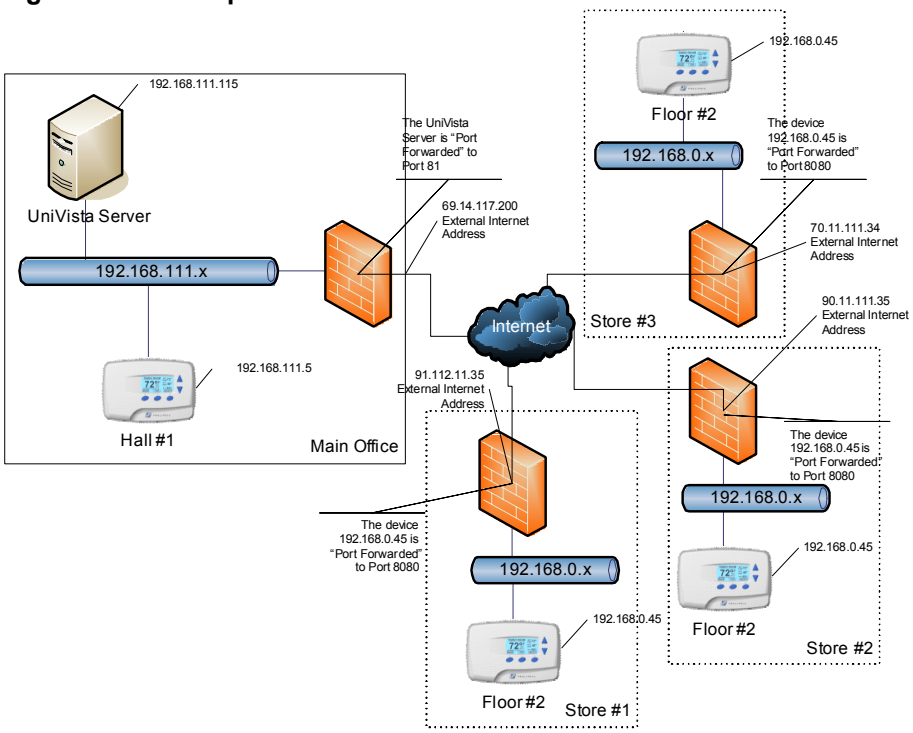


Figure 3-10 shows the Add Device window for adding the thermostat labeled Hall #1. shown in Figure 3-9. This device was previously installed so that no Name field is needed. The Admin Password field is needed because it has been changed.

Figure 3-10 Example 3 - Add Device Window #1

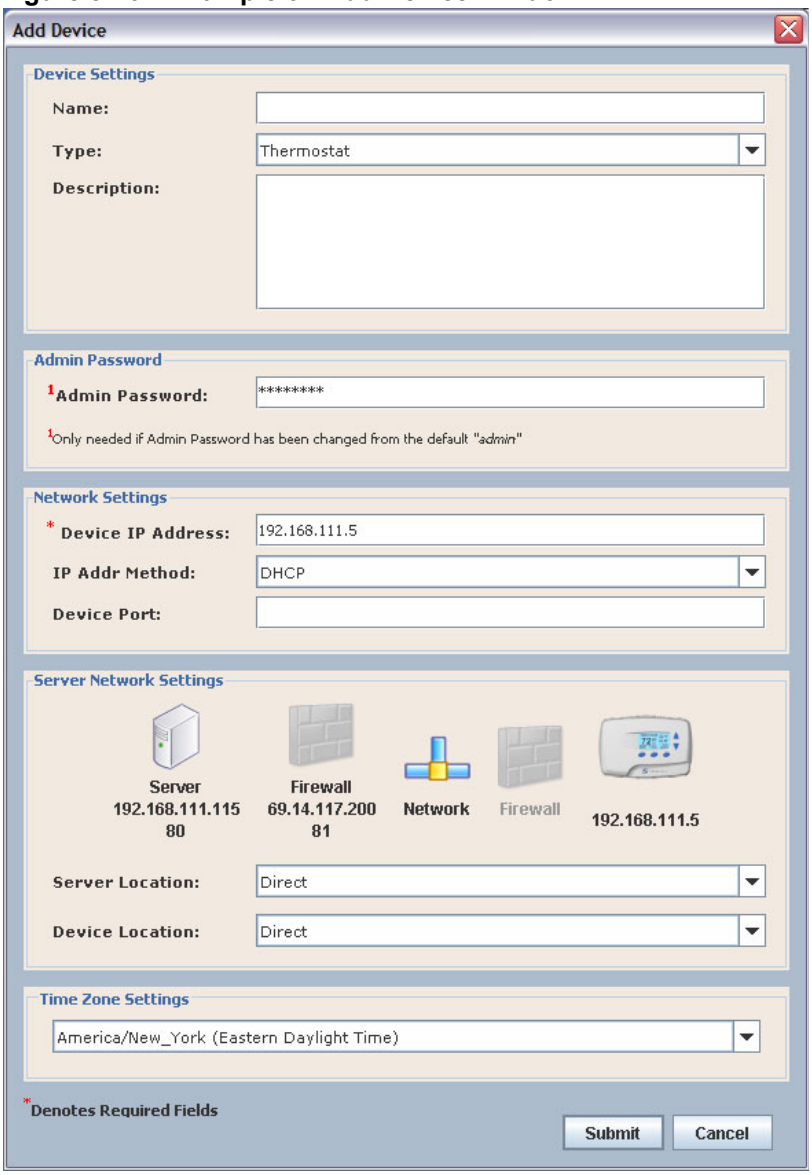
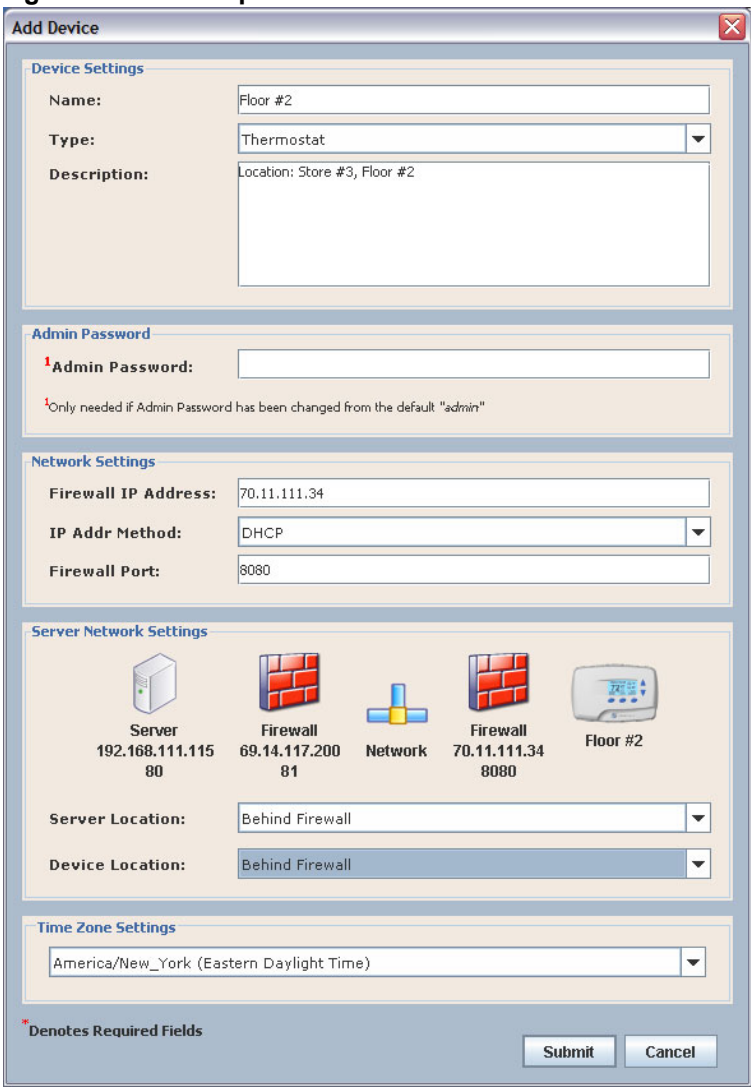


Figure 3-11 shows the Add Device window for adding the thermostat labeled Floor #2 in Store #3 shown in Figure 3-9. This is a new installation such that the Name field is populated. The Firewall IP Address is set to the IP address of Store #3's firewall. Store #3's firewall has been setup to port forward external port 8080 to the 192.168.0.45 device. Notice how both location fields have been set to Behind Firewall. The Server Network Settings diagram reflects the logical layout of the network. The Device, Floor #2 does not show an IP address because it is unknown until the device has been added to the UniVista server. A later call to Edit Device will show the local IP address.

Figure 3-11 Example 3 - Add Device Window #2



The remaining devices can be added in a similar fashion. If more than one device exists at a location, multiple port forwarding entries will be required. Each device will have the same Firewall IP address. However, the Firewall Port will change for each device.

Chapter 4

Performing Device Management Tasks Using UniVista

This chapter describes how to access the Function Frame and perform device-management tasks, for example: display the temperature status, schedule, and HVAC settings, configure addressing and security information, and configure HVAC type and heating/cooling cycles.

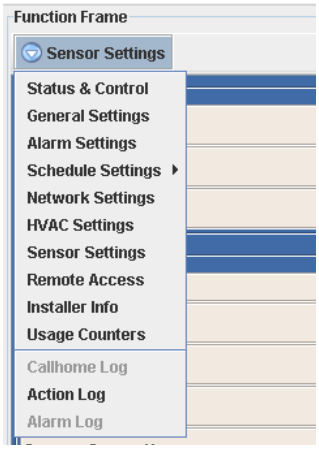
Specifically, it describes how to use the following pages to perform the appropriate device-management task with which the page is associated:

- Status & Control Page (page 4-4)
- General Settings Page (page 4-10)
- Alarms Settings Page (page 4-14)
- Schedules Settings Page (page 4-18)
- Network Settings Page (page 4-25)
- HVAC Settings Page (page 4-30)
- Sensor Settings Page (page 4-42)
- Remote Access Page (page 4-45)
- Installer Info Page (page 4-49)
- Usage Counters Page (page 4-50)

Accessing the Management Functions

Function Frames are used to control a single or group of Network Thermostats and are purposely similar to the respective Network Thermostat Web pages. Function Frame parameters are easily modified through convenient drop-down menus, which provide for unprecedented ease of schedule programming and HVAC settings changes. See Figure 4-1.

Figure 4-1 Function Frame



To display the device-management tasks:

1. From the Function Frame, click the drop-down list.
2. Select an option from the drop-down list and continue with the appropriate section:
   - Status & Control Page (page 4-4)
   - General Settings Page (page 4-10)
   - Alarms Settings Page (page 4-14)
   - Schedules Settings Page (page 4-18)
   - Network Settings Page (page 4-25)
   - HVAC Settings Page (page 4-30)
   - Sensor Settings Page (page 4-42)
   - Remote Access Page (page 4-45)
   - Installer Info Page (page 4-49)
   - Usage Counters Page (page 4-50)

Note *The Function Frame displays the fields specific to each device.*

Note

For information about viewing the Log files, see Viewing Action and Alarm Information (page 5-28).

Status & Control Page

The **Status & Control** page (see Figure 4-2) contains parameters and settings that enable you to configure the thermostat Heat/Cool Settings, HVAC, and Fan modes.

Figure 4-2 Status and Control Page

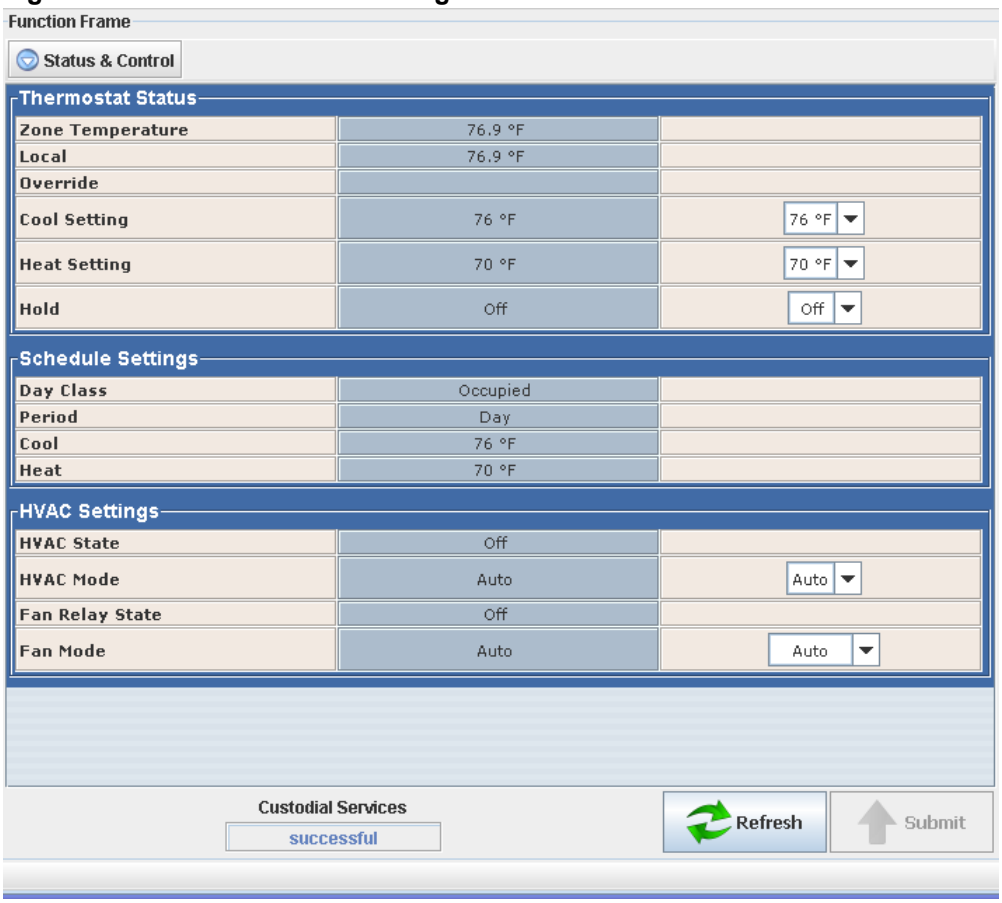


Table 4-1 describes the **Status and Control** fields. Modify the fields as necessary and click **Submit**.

Table 4-1 Status and Control Field Descriptions

Field	Description	Parameters
Temperature		
Zone Temperature	Displays the current temperature of the local sensor if temperature averaging is disabled. Average temperature of any combination of **Local, Remote Sensor #1 (RS #1)** or **Remote Sensor #2 (RS #2)** if temperature averaging is enabled.	**-30°F(-34°C) to 199°F(95°C)**
Local (Temperature)	Displays the current temperature of the local sensor. **Note:** This field appears grey if the local thermostat is enabled but not included in temperature averaging and does not appear at all if the local thermostat is not enabled. **Note:** This field is not applicable on the NT100e/h thermostat.	**45°F(7°C) to 95°F(35°C)**
RS #1	Displays the current temperature of **Remote Sensor #1** if this remote thermal sensor is installed and enabled. **Note:** This field appears grey if **RS #1** is enabled but not included in temperature averaging and does not appear at all if **RS #1** is not enabled. **Note:** This field is not applicable on the NT100e/h thermostat.	**-30°F(-34°C) to 199°F(95°C)**
RS #2	Displays the current temperature of **Remote Sensor #2** if this remote thermal sensor is installed and enabled. **Note:** This field appears grey if **RS #2** is enabled but not included in temperature averaging and does not appear at all if **RS #2** is not enabled. **Note:** This field is not applicable on the NT100e/h thermostat.	**-30°F(-34°C) to 199°F(95°C)**

Table 4-1 Status and Control Field Descriptions (Continued)

Field	Description	Parameters
Relative Humidity (NT150e/h, NT160e/h, and TM250e/h only)	Displays the relative humidity for the thermostat. The NT150e/h, NT160e/h, and TM250e/h thermostats are capable of measuring the relative humidity of the local air. The relative humidity is sampled once per minute and has an accuracy of ±3.0%. The reading includes temperature compensation for temperature readings significantly different from 77°F.	**10% to 90% RH**
Override	Displays whether **Heat** or **Cool** settings are different from the current scheduled settings. Changes made to either the **Heat** or **Cool** settings (which force an override) remain at those settings until the next scheduled Period change. At the Period change, the settings for either/both heat or cool follow the schedule. For more information, see Schedule Settings (page 4-7).	
Cool Setting	Select the current temperature programmed for the cooling (A/C) system. **Note:** This field appears grey if the HVAC Mode is set to Heat or Off and does not appear at all if Cool Control setting on the HVAC Settings page is disabled.	**40°F(4.5°C) to 99°F(37°C)**
Heat Setting	Select the current temperature programmed for the heating system. **Note:** This field appears grey if the HVAC Mode is set to Cool or Off and does not appear at all if Heat Control setting on the HVAC Settings page is disabled.	**40°F(4.5°C) to 99°F(37°C)**
Hold or Hold/OBO (NT130e/h and NT160e/h only)	Displays the current state for both the **Heat** and **Cool** setting. **Note:** When activated on the NT130e/h and NT160e/h the Hold function changes to One Button Overide and the Hold duration setting is used as an OBO duration setting.	■ **Hold** – Hold mode is enabled. (Does not apply to NT130e/h and NT160e/h) ■ **Off** (default) – Hold mode is disabled. ■ **One Button Override -** One Button Override is enabled (NT130e/h and NT160e/h only)

Table 4-1 Status and Control Field Descriptions (Continued)

Field	Description	Parameters
Schedule Settings		
Day Class	Displays the current settings for the scheduled **Day Class**. For more information, see Schedules Settings Page (page 4-18).	
Period	Displays the current settings for the scheduled **Period**. For more information, see Schedules Settings Page (page 4-18).	
Cool	Displays the current **Cool** temperature setting as set within the current **Day Class** schedule. For more information, see Schedules Settings Page (page 4-18).	**40°F(4.5°C) to 99°F(37°C)**
Heat	Displays the current **Heat** temperature setting as set within the current **Day Class** schedule. For more information, see Schedules Settings Page (page 4-18).	**40°F(4.5°C) to 99°F(37°C)**

Table 4-1 Status and Control Field Descriptions (Continued)

Field	Description	Parameters
HVAC Settings		
HVAC State	Displays the current state of the heating or cooling system. If a state change is made while viewing this page, click **Refresh** to update the status.	■ **Heat** – First stage heat is actively heating. ■ **Heat2** – First stage and second stage heat are actively heating. (Fuel Burner) ■ **Aux Ht** – First stage and auxiliary heat are actively heating. (Heat Pump) ■ **Cool** – First stage cool is actively cooling. ■ **Cool2** – First stage and second stage A/C are actively cooling. ■ **Off** – Neither the heating system or cooling system is active.
HVAC Mode	Select and controls the current mode setting for the HVAC system. The thermostat can be configured to control the heat system only, cool system only, automatically change over between heating and cooling systems, or control neither system.	■ **Off** – The thermostat is disabled from controlling either the heating or cooling system. ■ **Heat** – Heating system only. ■ **Cool** – Cooling system only. ■ **Auto** – Automatic changeover between heating and cooling systems.
Fan Relay State	Displays the current state of the HVAC fan.	■ **Off** – The operation of the fan is off. ■ **On** – The fan is operating.

Table 4-1 Status and Control Field Descriptions (Continued)

Field	Description	Parameters
Fan Mode	Select and control the current state setting for the HVAC fan.	■ **Auto** – Heating or cooling system controls the operation of the fan. ■ **On** – User forces the fan to the on state independent of the operation of the HVAC system. ■ **Schedule** – The operation of the fan adheres to a schedule as defined by the user on the Occupied, Unoccupied, and Other Day Class pages. For more information, See Schedules Settings Page (page 4-18). **Note:** When in **Schedule** mode, the fan continues to work in **Auto** mode as well.
External Relay State (NT150e/h, NT160e/h, and TM250e/h only)	Displays the current state of the External Relay.	■ **Active** – The External Relay has been activated. ■ **Inactive** – The External Relay is not active.

General Settings Page

The **General Settings** page (see Figure 4-3) contains parameters and settings that enable you to configure the thermostat name and location and set filter replacement reminders.

Figure 4-3 General Settings Page

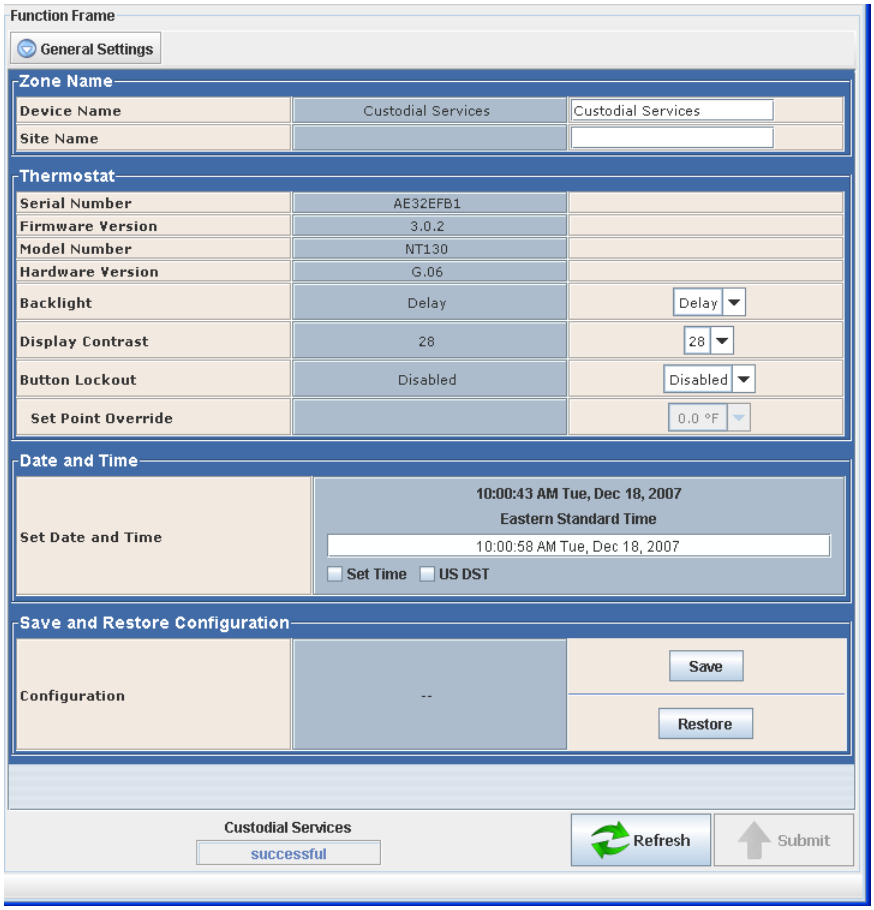


Table 4-2 describes the **General Settings** fields. Modify the fields as necessary and click **Submit**.

Table 4-2 General Settings Field Descriptions

Field	Description	Parameters
Zone Name		
Device Name	Enter a name for the device. You can use the thermostat location in this field, for example, Classroom 1. This identifier is known as the host name within the data network.	Unique 13 character identifier
Site Name	Enter a name used to identify the thermostat if more than one thermostat intercommunicates with the Proliphix Web Server. For more information, see the *Proliphix Remote Access Guide.*	25 alpha-numeric character name
Thermostat		
Serial Number	Displays the device's serial number.	Eight digit alpha-numeric thermostat serial number, for example, 8438F399
Firmware Version	Displays the firmware version.	
Model Number	Displays the hardware model.	
Hardware Version	Displays the hardware version.	
Backlight	Select the LCD backlight control.	■ **Delay** (default) – The backlight is illuminated when you click a button and remains illuminated for 16 seconds after the last button is clicked. ■ **Off** – The backlight is disabled from activation. An ambient backlight remains visible.
Display Contrast	Select a value between **20** (lowest contrast between the graphics characters and the background) and **40** (highest character contrast to the background) to indicate the LCD display contrast control.	**20, 22, 24, 26, 28 (default), 30, 32, 34, 36, 38, 40**

Table 4-2 General Settings Field Descriptions (Continued)

Field	Description	Parameters
Button Lockout	Select to indicate the **Button Lockout** status. When enabled, this feature prevents a user from directly altering the settings of the thermostat from the thermostat's button interface and the button lockout icon appears on the thermostat LCD screen. When **Button Lockout** is: ■ **Disabled**, this specifies the time interval for the **Hold** function in which the thermostat temperature settings are held independent of schedule changes due to **Period** or **Day Class** advancements. ■ **Enabled** on the NT130e/h and NT160e/h, the **Hold** function on the Status and Control page changes to **Hold/OBO** and the Hold duration setting is used as an OBO duration setting.	■ **Disable** (default) – Allows normal thermostat button activity. ■ **Enable** – Prevents user access at the thermostat button interface except for limited or no temperature adjustments.
Set Point Override	Select to restrict the use of the thermostat buttons to allow only limited temperature adjustments to be made above and below the preset temperature schedules. **Note:** This field is disabled if **Button Lockout** is set to **Disable**.	■ **0** (default) – No temperature adjustments are allowed. All thermostat buttons are disabled. ■ **1 through 20** – (Fahrenheit) Allowed temperature limits above and below the current scheduled temperature settings. For example, if this value is set to 2, the Up and Down buttons may be used to select a temperature within the range of 2°F below/above the current scheduled temperature set point. ■ **.5 through 10** – (Celsius) Allowed temperature limits above and below the current scheduled temperature settings.

Table 4-2 General Settings Field Descriptions (Continued)

Field	Description	Parameters
Date and Time		
Set Date and Time	Displays the date, time, and time zone of the selected device, along with the current local time for reference. The **Set Date and Time** function is used to immediately update the time on a device. Under normal operation, the UniVista server sets the device's time once a day to ensure proper schedule operation.	
Set Time	Click to set the time and date on the device. The date and time of the device can be set by clicking the **Set Time** checkbox and clicking **Submit**. The time that is set on the device is determined on the UniVista server according to the server's time and the device's time zone.	
US DST	Click to indicate whether the thermostat should adhere to the Unites States Daylight Savings Time program, while maintaining the date and time U.S. Daylight Savings Time (**US DST**) stipulates that the time shall be set ahead an hour at the end of the first Saturday of the month of April every year. In addition, the time shall be set back an hour at the end of the last Saturday of the month of October every year.	
Save and Restore Configuration		
Configuration		■ **Save** ■ **Restore**

Alarms Settings Page

The **Alarm Settings** page (see Figure 4-4) contains parameters and settings that enable you to configure alarm information.

Figure 4-4 Alarm Settings Page

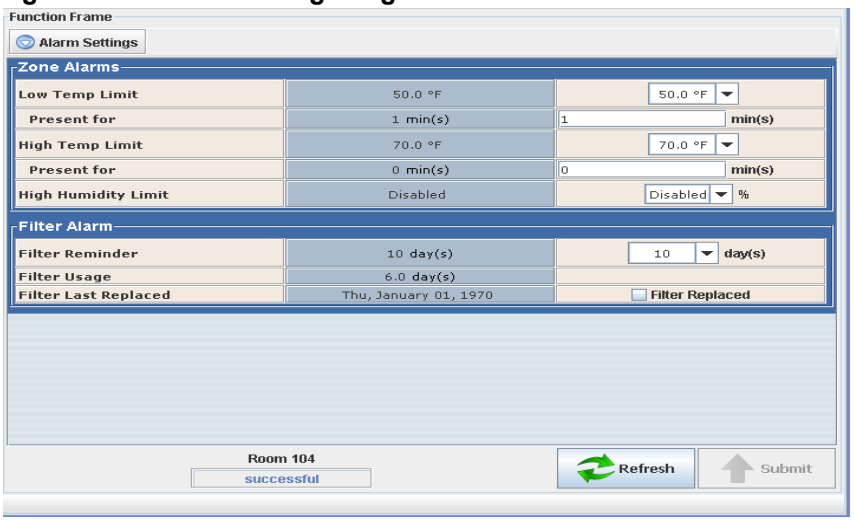


Table 4-3 describes the **Alarm Settings** fields. Modify the fields as necessary and click **Submit**.

Table 4-3 Alarm Settings Field Descriptions

Field	Description	Parameters
Zone Alarms		
Low Temp(erature) Limit	Select to indicate the low temperature threshold detection status. The value set by this parameter is monitored by the thermostat and compared against the current **Zone Temperature**. If the current **Zone Temperature** falls below this value, an alarm condition is set and the status is displayed on the Status & Control Page (page 4-4). In addition, this alarm will be sent to the Proliphix web site to trigger an E-mail notification if this function is **Enabled**. **Note:** This is a major (red) alarm condition.	■ **Disable** (default) – No low temperature limit is set. ■ **-30°F(-34.5°C) to 200°F(93°C)**

Table 4-3 Alarm Settings Field Descriptions (Continued)

Field	Description	Parameters
Low Temp(erature) Dismiss	If a **Low Temp Limit** alarm is set and is noted in the **Low Temp Dismiss** field then the **Condition Repaired** box must be checked and the Zone Temperature must be above the **Low Temp Limit** or the **Low Temp Limit** must be set to **Disable** for the alarm condition to be cleared upon a **Submit**.	
High Temp(erature) Limit	Select to indicate the high temperature threshold detection status. The value set by this parameter is monitored by the thermostat and compared against the current Zone Temperature. If the current Zone Temperature rises above this value, an alarm condition is set and the status is displayed on the Status & Control Page (page 4-4). In addition, this alarm is sent to the Proliphix web site to trigger an E-mail notification if this function is **Enabled**. **Note:** This is a major (red) alarm condition.	■ **Disable** (default) – No high temperature limit is set. ■ **-30°F(-34.5°C) to 200°F(93°C)**
High Temp(erature) Dismiss	If a **High Temp Limit** alarm is set and is noted in the **High Temp Dismiss** field then the **Condition Repaired** box must be checked and the Zone Temperature must be below the **High Temp Limit** or the **High Temp Limit** must be set to **Disable** for the alarm condition to be cleared upon a **Submit**.	

Table 4-3 Alarm Settings Field Descriptions (Continued)

Field	Description	Parameters
High Humidity Limit (NT150e/h and NT160e/h only)	Select to indicate the high humidity threshold detection status. This value is monitored by the thermostat and compared against the current **Relative Humidity**. If the current **Relative Humidity** rises above this value, an alarm condition is set and the status is displayed on the Status & Control Page (page 4-4). In addition, this alarm is sent to the Proliphix web site to trigger an E-mail notification if this function is **Enabled**. If a **High Humidity Limit** alarm is set and is noted in the **High Humidity Dismiss** field then the **Condition Repaired** box must be checked and the relative humidity must be below the **High Humidity Limit** or the **High Humidity Limit** must be set to **Disable** for the alarm condition to be cleared upon a **Submit**. **Note:** This is a major (red) alarm condition.	■ **Disable** (default) – No high humidity limit is set. ■ **10%RH to 90%RH** – High Humidity Limit in 5% increments.
High Temp(erature) Dismiss	If a **High Temp Limit** alarm is set and is noted in the **High Temp Dismiss** field then the **Condition Repaired** box must be checked and the Zone Temperature must be below the **High Temp Limit** or the **High Temp Limit** must be set to **Disable** for the alarm condition to be cleared upon a **Submit**.	

Table 4-3 Alarm Settings Field Descriptions (Continued)

Field	Description	Parameters
Filter Alarms		
Filter (change) Reminder	Select to remind you that the HVAC system requires maintenance. This feature allows you to set time intervals between changing and/or cleaning the HVAC filter. If enabled, an alarm condition is set after the pre-set interval has expired, and is displayed on the Status & Control Page (page 4-4). In addition, this alarm is sent to the Proliphix web site to trigger an E-mail notification if this function is **Enabled**. **Note:** This is a minor (yellow) alarm condition.	■ **Disables** (default) – Interval reminder disabled. ■ **10, 30, 60, 90, 120, 240, 365 Runtime Days** – The runtime interval after which an alarm will be set to remind the user of the need for HVAC maintenance.
The TMI displays the following additional fields upon different settings and conditions of the **Filter Reminder** state.		
Filter Usage	Displays a running tally of **Runtime Days** (x.x) which have elapsed since the previous **Filter Last Replaced** date. If this value is greater than the preset **Runtime Days**, it is displayed in red and an alarm is generated indicating that the **Filter Reminder** interval has expired. **Note:** This field is displayed only when **Filter Reminder** in enabled.	
Filter Last Replaced	Click to force the current thermostat date and time into the **Date and Time** field above and restart the interval set within the **Filter Reminder** field above. For example, if the filter is changed prior to the **Filter Reminder** interval expiration, checking this box and clicking **Submit** restarts the interval timer. **Note:** This field is displayed only when **Filter Reminder** in enabled.	

Schedules Settings Page

The Schedules Settings function is divided into 2 pages: Calendar (see Figure 4-5) and Special Days (see Figure 4-6).

From the:

- Calendar page you can configure different scheduling options to customize heating, cooling, or fan schedules. For more information, see Thermostat Scheduling using the Calendar Page (page 4-19).
- Special Days page you can schedule a specific day or group of days. For more information, see Thermostat Scheduling using Special Days (page 4-24).

Figure 4-5 Schedules Settings - Calendar Page

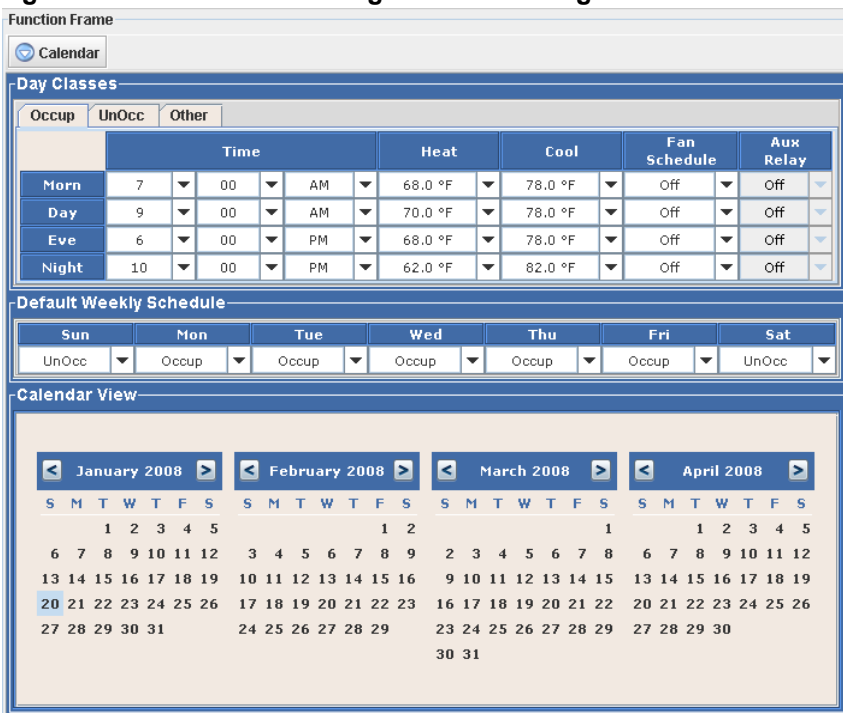
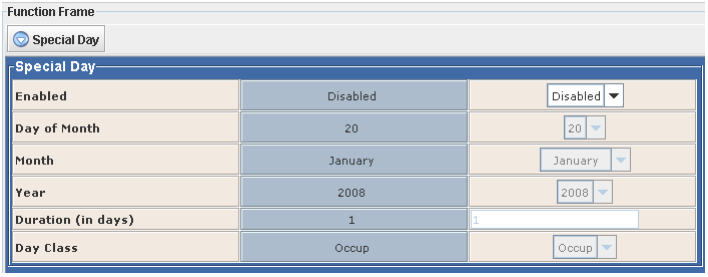


Figure 4-6 Special Days Page

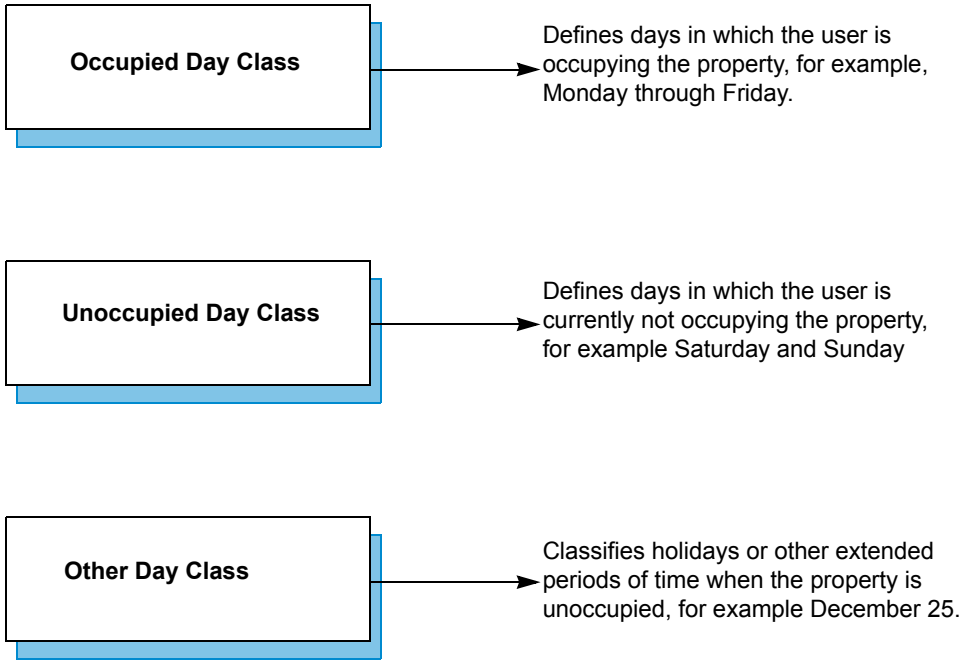


Thermostat Scheduling using the Calendar Page

The thermostat scheduling feature is organized in a hierarchy. You use **Day Classes** to classify the types of days that are used in the schedule. Each **Day Class** is divided into four Periods, each of which supports temperature settings for both heating and cooling, and fan settings to provide periodic air flow.

UniVista supports the following three **Day Classes** shown in Figure 4-7.

Figure 4-7 Day Class Scheduling


Occupied Day Class
Defines days in which the user is occupying the property, for example, Monday through Friday.
Unoccupied Day Class
Defines days in which the user is currently not occupying the property, for example Saturday and Sunday
Other Day Class
Classifies holidays or other extended periods of time when the property is unoccupied, for example December 25.

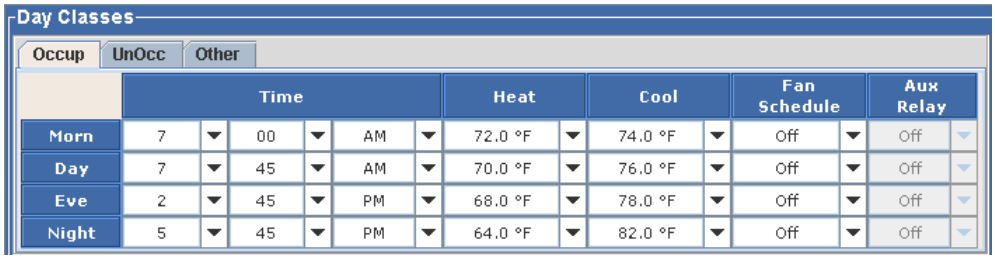
Each **Day Class** supports the following four non-overlapping periods of time in which you can independently specify heat, cool, fan, and aux relay (NT160e/h only) settings:

- **Morning** (pre-business hours)
- **Day** (business hours)
- **Evening** (after business hours)
- **Night** (unoccupied hours)

Day Class Schedule

The **Day Class Schedules** table displays **Occupied, UnOccupied**, and **Other Day Class Schedules** (see Figure 4-8). The **Day Class Schedules** table displays the day class periods and period start times within each row of the table, as well as the heat and cool settings for each period in each day class.

Figure 4-8 Day Class Schedules Table


Day Classes
Occup
UnOcc
Other
Time
Heat
Cool
Fan Schedule
Aux Relay
Morn 7 00 AM 72.0 °F 74.0 °F Off Off
Day 7 45 AM 70.0 °F 76.0 °F Off Off
Eve 2 45 PM 68.0 °F 78.0 °F Off Off
Night 5 45 PM 64.0 °F 82.0 °F Off Off

From the **Occupied (Occup), Unoccupied (UnOcc), or Other Class Schedule** page, you can assign both heat and cool temperature settings, as well as fan schedule settings in each of the four schedule periods.

Use Table 4-4 to modify the **Day Class Schedules** table fields.

Table 4-4 Day Class Schedule Field Descriptions

Field	Description	Parameter
Period	Displays one of four time periods of the day.	
Time	Select a time period. Includes AM / PM indicator. **Note:** You can modify the time period in 5 minute increments on the NT130e/h and NT160e/h models only.	15 minute increments
Heat (Temp)	Select a heat temperature setback setting.	**40°F(3.5°C) to 99°F(36°C)**
Cool (Temp)	Select a cool temperature setback setting.	**40°F(3.5°C) to 99°F(36°C)**
Fan Schedule	Select the time in each hour of the **Period** in which the fan will be **On**. The schedule begins on the hour and advances for the duration specified. **Note:** Within the hour of each **Period** but outside the schedule interval, the fan reverts to AUTO mode to ensure proper operation for either a heating or cooling call to the HVAC system.	■ **Disable/Off** (default) – No fan operation scheduled within this Period. ■ **On** – Fan is forced On for the entire hour, for every hour, within this Period. ■ **15, 30, 45 minutes** – Fan is forced On for this selected duration, beginning at the top of the hour, for every hour, within this period.

Table 4-4 Day Class Schedule Field Descriptions (Continued)

Field	Description	Parameter
Aux Relay (NT160e/h only)	Select the time in each hour of the **Period** in which the External Relay Trigger will be **On**. The schedule begins on the hour and advances for the duration specified.	■ **Off** (default) – No External Relay Trigger scheduled within this Period. ■ **On** – External Relay Trigger is forced On for the entire hour, for every hour, within this Period. ■ **15, 30, 45 minutes** – External Relay Trigger is forced On for this selected duration, beginning at the top of the hour, for every hour, within this Period.

Default Weekly Schedule

The **Default Weekly Schedule** table (see Figure 4-9) provides a template that you can use to apply the three day classes to each day of the week, for every week of the year. UniVista applies this weekly template to every week in each month that is visible in the **Calendar View** table at the bottom of the Schedules Settings Page (page 4-18).

Figure 4-9 Default Weekly Schedule Table

From the **Default Weekly Schedule** table, you can assign one of three **Day Classes** (**Occupied**, **Unoccupied**, or **Other**) to each of the seven days of the week.

Use Table 4-5 to modify the **Default Weekly Schedule** table fields.

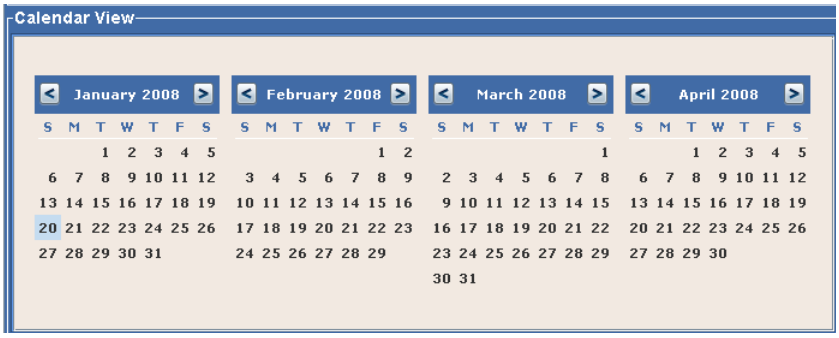
Table 4-5 Default Weekly Schedule Field Descriptions

Field	Description	Description
Day	Displays the seven days of the week.	Sun - Sat
Class	Select one of three Day Classes for each day of the week. **Note:** See Figure 4-7 on page 4-19 for more information.	■ **Occup** – Occupied Day Class ■ **Unocc**– Unoccupied Day Class ■ **Other** – Other Day Class

Calendar View

The **Calendar View** (see Figure 4-10) displays the day class settings for each day of the month.

Figure 4-10 Calendar View Window



To modify any day class in the **Calendar View,** click the **date** within the calendar. The **Special Day Selection** window (see Figure 4-11) appears. From this page, you can select any day of the current or future month and assign a day class different from what is specified in the Default Weekly Schedule (page 4-21).

Figure 4-11 Special Day Selection Window

For example, if your **Default Weekly Schedule** is configured for every Monday through Friday as **Occupied** and you want to schedule a national holiday or a company shutdown, go to the **Special Day** page and configure the day(s) or week(s) as **Other** schedule. This allows you to designate certain days, weeks, or months to be different from the default schedule.

Note

You can enter as little as one day or as many as 90 days as a duration for the special day.

To add or edit a Special Day:

1 Click directly on any date in the **Calendar View**. See Figure 4-10 on page 4-22.

Figure 4-11 on page 4-22 appears.

2 Do one of the following:

- To add a Special Day, modify the table as needed and click **Add**.
- To modify a Special day, modify the table as needed and click **Submit**.
- To remove a Special Day, click **Remove**.

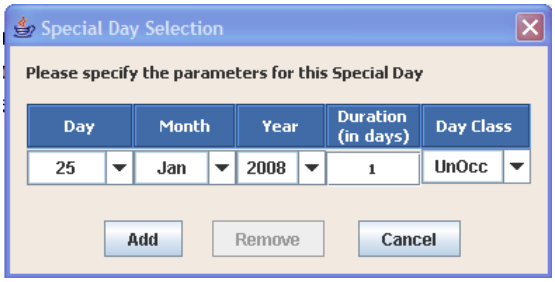
Note

*You can also add a Special Day from by selecting **Schedule Settings** => **Special Day** in the **Function Frame**.*

Special Day Selection Example 1

In Figure 4-10 on page 4-22, January 25, 2008 is displayed as an **Occupied Day Class**. In Figure 4-12, January 25, 2008 is modified to be and **Unoccupied Day Class**. This represents a change to the default weekly schedule for the last week in January and requires a single **Special Days** entry.

Figure 4-12 Special Day Selection - Example 1 Page



Special Day Selection Example 2

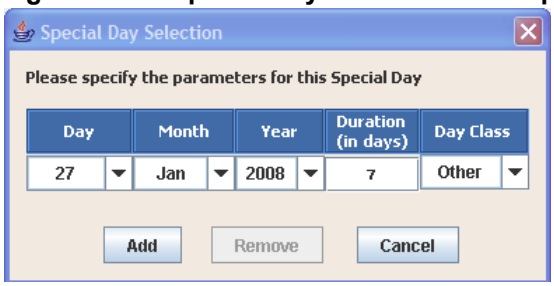
To add a week-long period to the thermostat schedule from the January 27, 2008 through February 2, 2008**:**

1 Click directly on the **27**th on the **Calendar View**. See Figure 4-10 on page 4-22.

Figure 4-12 on page 4-23 appears.

2 Modify **Duration** to **7** and **Day Class** to **Other**. See Figure 4-13.

Figure 4-13 Special Day Selection - Example 2 Page



3 Click **Add**.

The Calendar is updated to include the newly added week-long Special Days schedule. See Figure 4-14.

Figure 4-14 Special Days - Newly Added Schedule

Thermostat Scheduling using Special Days

In addition to scheduling a specific day or group of days from the Calendar page, you can select any day of the current or future month and assign a day class different from what is specified in the Default Weekly Schedule (page 4-21) using the Special Days page. See Figure 4-6 on page 4-18.

Modify the fields as you would using the Calendar page. For more information, see Calendar View (page 4-22).

Network Settings Page

From the **Network Settings** page (see Figure 4-15) you can configure the appropriate network parameters specific to your local network such as configuring the **Syslog** server address to receive messages and alerts.

Figure 4-15 Network Settings Page

Table 4-6 describes the **Network Settings** fields. Modify the fields as necessary and click **Submit**.

Table 4-6 Network Settings Field Descriptions

Field	Description	Parameters
Addressing		
MAC Address	Displays a factory assigned value installed in the thermostat which uniquely identifies the thermostat on the local network for transmitting and receiving network information.	00:11:49:AB:CD:EF where AB:CD:EF is a unique value for each thermostat.
IP Address Method	Select the method by which the thermostat receives the unique Internet Protocol address for the local network. IP addressing can be either automatically assigned via a local DHCP server or manually (**Static**) assigned by the user. After the initial configuration of the thermostat, you should assign IP address to **Static** to ensure a permanent IP address assignment for remote access or for simplified local access.	■ **DHCP** (default) – IP addressing method is DHCP assigned. ■ **Static** – IP address is manually assigned by the user.
IP Address	Displays the unique Internet Protocol address either assigned statically or by DHCP. For more information, see IP Address Method. **Note:** You must click **Submit** after changing this parameter to invoke a software reset to set the new value.	
Subnet Mask	Displays the IP subnet on which the thermostat IP address is assigned. The subnet can include 256, 65536 or 16772216 IP addresses. **Note:** You must click **Submit** after changing this parameter to invoke a software reset to set the new value.	■ **X.Y.Z.C** – Class C address subnet. There can be 256 IP addresses in this subnet. ■ **X.Y.B.B** – Class B address subnet. There can be 65,536 IP addresses in this subnet. ■ **X.A.A.A** – Class A address subnet. There can be 16,772,216 IP addresses in this subnet.

Table 4-6 Network Settings Field Descriptions (Continued)

Field	Description	Parameters
Gateway (Address)	Displays the IP address of the router which acts as a gateway for the thermostats to communicate to other devices in another subnet. The thermostat uses this address when it needs to communicate with the Proliphix Web Server for remote access. **Note:** You must click **Submit** after changing this parameter to invoke a software reset to set the new value.	**A.B.C.D** – Four field standard dot notation for IP address designation.
Firewall Settings		
Inbound Port	Enter the IP port number to be configured on a local firewall router to allow inbound WAN traffic access to the thermostat for remote management. This feature is used only by the Proliphix Remote Management Server. The thermostat uses this value, along with the WAN IP address, to notify the server which port is to be used when the server wants to contact the thermostat on an internal LAN.	**wxyz** – (default = 8081) Four digit (max) standard IP port number designation.
Web Server		
HTTP Port	Enter the IP port number of the HTTP server within the thermostat. his field defines the IP port number assigned to the web server internal to the thermostat for remote access. **Note:** If you are trying to access the thermostat's Web pages, then you must be able to access the thermostat on this port. **Note:** You must click **Submit** after changing this parameter to invoke a software reset to set the new value.	**wxyz** – Four digit (max) standard IP port number designation. The default port number is **80**.
LAN Auto-Discovery		
Broadcast Port	Enter to which port the thermostat responds to queries when interrogated by the Device Locator program in the Proliphix Device Utility tool. The Device Locator Program is a utility program that allows you to auto-discover the Proliphix devices on your network.	

Table 4-6 Network Settings Field Descriptions (Continued)

Field	Description	Parameters
Security		
Access Filter	Click to restrict access to the thermostat from network devices whose IP addresses are outside the range specified in the accompanying fields. Network administrators can provision varying levels of security based on combinations of the administrator/user passwords as well as these address filter levels. **Note:** If both of these option levels are disabled (unchecked), the thermostat is exposed to access from all network devices located anywhere in the IP address space and is only protected with user/admin password authentication.	■ **Local Subnet** – (default is unchecked) The thermostat can be accessed within a class C subnet. For example, 192.168.111.x where "x" is 0 to 254. ■ **User Defined** – (default is unchecked) The thermostat can be accessed by network devices which reside in the address space as specified by both the Network Address and Network Mask fields. This option is typically used in corporate environments with large LANs which include many routed subnets.
Network Address	Displays the unique Internet Protocol address required in conjunction with the **Network Mask** to allow network accesses. Note: To access this field, the **Access Filter** must be active.	**A.B.C.D** – Four field standard dot notation for IP address designation.
Network Mask	Displays the **Network Mask** required in conjunction with the **Network Address** to allow network accesses. This field defines the IP subnet from which network accesses is allowed. The subnet can include 256, 65536 or 16772216 IP addresses. Note: To access this field, the **Access Filter** must be active.	■ **X.Y.Z.C** – Class C address subnet. There can be 255 IP addresses in this subnet. ■ **X.Y.B.B** – Class B address subnet. There can be 65,536 IP addresses in this subnet. ■ **X.A.A.A** – Class A address subnet. There can be 16,772,216 IP addresses in this subnet.

Table 4-6 Network Settings Field Descriptions (Continued)

Field	Description	Parameters
Syslog Setup		
Address	Enter the Syslog server IP address. The IP address can be either a single address, multicast, or broadcast address. Alarms that are delivered to the Proliphix Remote Management Server are also delivered to the Syslog server. The alarm status is delivered to the Proliphix Remote Management Server independent of the Syslog messages. Note that you can disable Syslog messages by setting either the destination IP address or port address to zero (**0.0.0.0** or **0**).	**A.B.C.D** – Four field standard dot notation for IP address designation.
Port	Enter the Syslog server IP port, which allows you to use a custom program to receive alarm/alert notifications.	**wxyz** – Four digit (max) standard IP port number designation. The default port number is **514**.
Repeat Interval	Select the Syslog messaging periodic interval. This is the rate at which Syslog messages are emitted from the thermostat. Syslog alarm/alert messages are sent to the Syslog server every minute until the alarm/alert condition is cleared on the thermostat. Alarm/alert messages are sent with a **Local7 Facility Code** and with a severity level of **Alert** as defined in RFC 3164. In addition to alarms and alerts, the System Start event (generated during thermostat start up) is also reported to the Syslog server. These events are not repetitive but only occur once when the event occurs.	**1, 5, 30, 60** –The amount of time in minutes between successive Syslog messages sent by the thermostat after an error event and before the error event is cleared.

HVAC Settings Page

The **HVAC Settings** page enables you to customize the thermostat by selecting the HVAC type and setting heating and cooling parameters.

How you configure your thermostat depends on whether your HVAC system is a Fuel Burner (see Figure 4-16) or a Heat Pump (see Figure 4-17 on page 4-31).

Figure 4-16 HVAC Settings Page - Fuel Burner

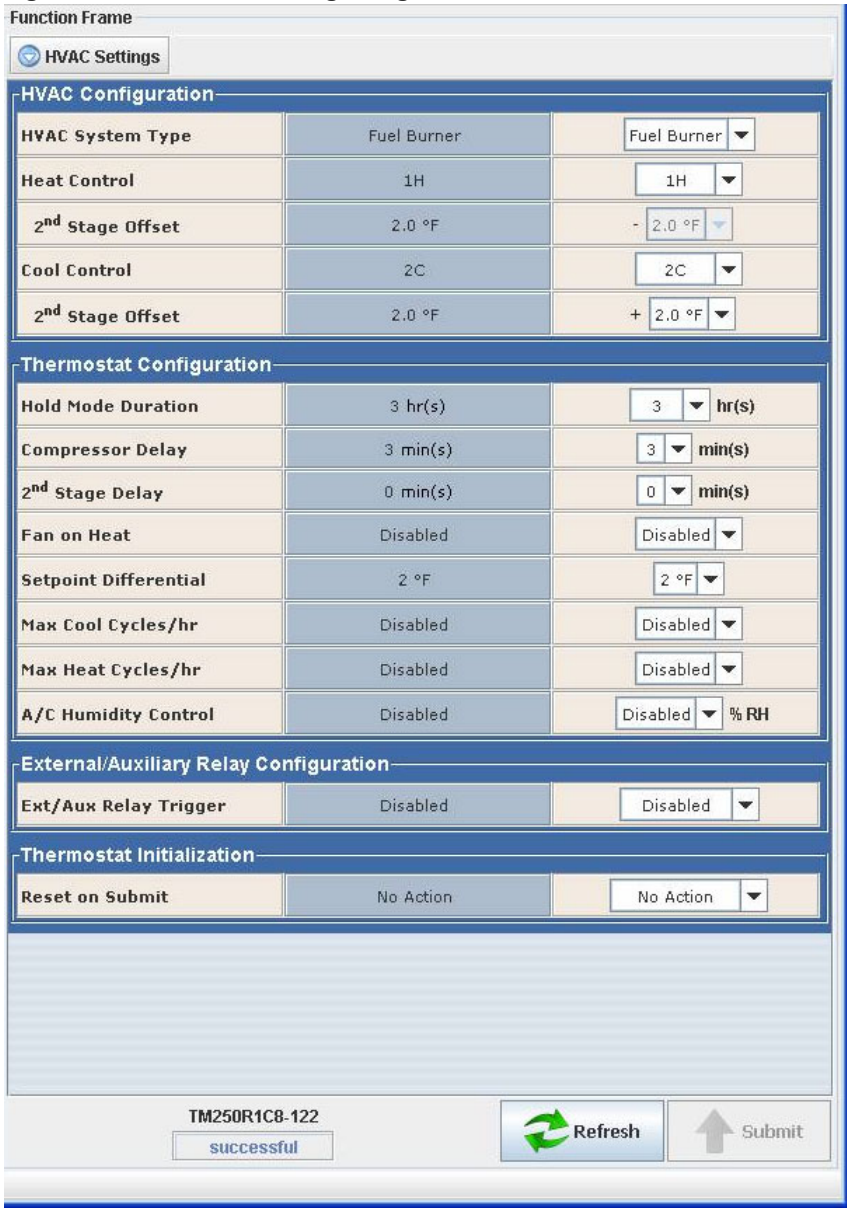


Figure 4-17 HVAC Settings Page - Heat Pump

Table 4-7 describes the **Advanced Settings** fields. Modify the fields as necessary and click **Submit**.

Table 4-7 HVAC Settings Field Descriptions

Field	Description	Parameters
HVAC Confirmation		
HVAC System Type	Select the type of HVAC system, either **Fuel Burner** (default) or **Heat Pump**. **Note:** When selecting between either **Fuel Burner** or **Heat Pump** or between **Heat Pump** and **Fuel Burner**, the **HVAC Mode** must be set to Off prior to selecting the opposite setting. For more information, see the Status & Control Page (page 4-4).	■ **Fuel Burner** (default) – Specifies the HVAC system burns fossil fuels, gas or oil. Typically the system includes either an oil or gas fired boiler or furnace. See Figure 4-16 on page 4-30 and continue with If Your HVAC System is a Fuel Burner (page 4-32). ■ **Heat Pump** – Specifies that the HVAC system is based on an electric compressor. See Figure 4-17 on page 4-31 and continue with If Your HVAC System is a Heat Pump (page 4-33).
If Your HVAC System is a Fuel Burner		
Heat Control	Select the thermostat's capability to control a single stage or dual stage cooling system. The thermostat can also be disabled from controlling a heating system and instead operate as a cool-only thermostat. For more information, see Cool Control (page 4-33).	■ **Disable** – No heating system exists. (A/C only thermostat.) ■ **Enabled** ■ **1H** – Enables the heating system as a standard single stage system. ■ **2H** (default) – Enables the heating system as a dual stage system.
2nd Stage Offset	Select the second stage heat set point temperature referenced to the first stage heat set point temperature. For example, if the first stage temperature set point is set to 70°F, and this parameter were set to -3°F, the second stage heat would activate at or below 67°F. **Note:** This parameter is only enabled when **2H Heat Control** is selected.	**0, -2, -3, -4, -5, -6 °F (0, -1.0, -1.5, -2.0, -2.5, -3.0 °C)**

Table 4-7 HVAC Settings Field Descriptions (Continued)

Field	Description	Parameters
Cool Control	Select the thermostat's capability to control a single stage or dual stage cooling system. The thermostat can also be disabled from controlling a cooling system and instead operate as a heat-only thermostat. For more information, see Heat Control (page 4-32).	■ **Disabled** – Specifies that there is no cooling system present. (heat-only thermostat.) ■ **1C** – Enables the cooling system as a standard single stage system. ■ **2C** (default) – Enables the cooling system as a dual stage system.
2nd Stage Offset	Select the second stage cool set point temperature referenced to the first stage cool set point temperature. For example, if the first stage temperature set point is set to 72°F, and this parameter were set to 3°F, the second stage A/C would activate at or above 75°F. Note: This parameter is only enabled when **2H Cool Control** is selected.	**0, +2, +3, +4, +5, +6 °F (0, +1.0, +1.5, +2.0, +2.5, +3.0 °C)**
If Your HVAC System is a Heat Pump		
Reverse Valve Polarity	Select the direction of the heating and cooling modes.	■ **O** – Indicates that the heat pump normally runs in heat mode and when the reversing valve is activated then the heat pump will run in cooling mode. ■ **B** – Indicates that the heat pump normally runs in cool mode and when the reversing valve is activated then the heat pump will run in heating mode.
Heat Control	Select the thermostat's capability to control a single stage or dual stage cooling system. The thermostat can also be disabled from controlling a heating system and instead operate as a cool-only thermostat. For more information, see Cool Control (page 4-33).	■ **Disable** – Specifies that there is no heating system present. (A/C only thermostat.) ■ **Enabled** ■ **2H** (default) – Enables the heat pump as a dual stage heating system. ■ **1H** – Enables the heat pump as a standard single stage heating system.

Table 4-7 HVAC Settings Field Descriptions (Continued)

Field	Description	Parameters
2nd Stage Offset	Select the second stage heat set point temperature referenced to the first stage heat set point temperature. For example, if the first stage temperature set point is set to 70°F, and this parameter were set to -3°F, the second stage heat would activate at or below 67°F. **Note:** This parameter is only enabled when **2H Heat Control** is selected.	**0,-2, -3, -4, -5, -6 °F (0,-1.0, -1.5, -2.0, -2.5, -3.0 °C)**
Auxiliary Heat	Select a secondary source of heat outside the heat pump system, for example, electric baseboard or a gas furnace.	■ **Disable** – Disables Auxiliary Heat. ■ **Enable w/ Comp** – Enables the compressor when Auxiliary Heat is active. ■ **Enable w/o Comp** – Disables the compressor when Auxiliary heat is active.
Aux Heat Offset	Select the **Auxiliary Heat** set point temperature referenced to the first stage heat set point temperature. For example, if the first stage temperature set point is set to 70°F, and this parameter were set to -3°F, the auxiliary heat would activate at or below 67°F. Note: This parameter is only enabled when **Auxiliary Heat** is enabled.	**0,-2, -3, -4, -5, -6 °F (0,-1.0, -1.5, -2.0, -2.5, -3.0 °C)**
Cool Control	Select the thermostat's capability to control a single stage or dual stage cooling system. The thermostat can also be disabled from controlling a cooling system and instead operate as a heat-only thermostat. For more information, see Heat Control (page 4-32).	■ **Disable** – Specifies that there is no cooling system present. (Heat only thermostat.) ■ **2C** – Enables the heat pump as a standard dual stage cooling system. ■ **1C** – Enables the heat pump as a standard single stage cooling system.

Table 4-7 HVAC Settings Field Descriptions (Continued)

Field	Description	Parameters
2nd Stage Offset	Select the second stage cool set point temperature referenced to the first stage cool set point temperature. For example, if the first stage temperature set point is set to 72°F, and this parameter were set to 3°F, the second stage A/C would activate at or above 75°F. Note: This parameter is only enabled when **2H Cool Control** is selected.	**0, +2, +3, +4, +5, +6 °F (0, +1.0, +1.5, +2.0, +2.5, +3.0 °C)**

Table 4-7 HVAC Settings Field Descriptions (Continued)

Field	Description	Parameters
Thermostat Configuration		
Hold Mode Duration (NT100e/h, NT120e/h, and NT150e/h only)	Select the time interval in which the thermostat temperature setting are held independent of schedule changes due to **Period** or **Day Class** advancements.	■ **0** – The **Hold** period is indefinite and the temperature setting are "held" until the user removes this condition. ■ **1, 3(default), 8, 12, 24** –The amount of time in hours in which the current temperature setting are "held" and inhibited from change.
Hold/OBO (One Button Override) Duration (NT130e/h and NT160e/h only)	When **Button Lockout** is disabled, this specifies the time interval for the **Hold** function in which the thermostat temperature settings are held independent of schedule changes due to **Period** or **Day Class** advancements. When **Button Lockout** is enabled, this specifies the time interval for **One Button Override (OBO)** in which the thermostat temperature setpoints of Class #1 Day Period are used.	■ **Perm** – The period is indefinite and the temperature setting are either "held" or referred back to the temperature settings noted in the Day Class Schedule for the specific Period until the user removes this condition. ■ **1, 2, 3(default), 4, 8, 12, 24** – The amount of time in hours in which the current temperature settings are either "held" or referred back to the temperature settings noted in the Class #1 Day Period.
Compressor Delay	Select the minimum time (in minutes) between successive heating, cooling or heat to cool and cool to heat cycles in heat pump applications. This parameter ensures a safe heat pump compressor delay or off time guaranteed between cycles. This parameter may also be used in fuel burner mode, whereby this parameter ensures a safe A/C compressor delay or off time guaranteed between A/C cycles.	■ **0** – Enables the cooling system to cycle immediately upon completion of the previous cycle. **Note: This is a diagnostic feature and should not be left in this state or compressor short cycling and subsequent damage may occur to the compressor.** ■ **3(default) through 10** – Time in minutes required between the completion of a cooling cycle and the next subsequent cooling cycle.
2nd Stage Delay	Select the delay between the 1st stage activation and 2nd stage activation. This feature also controls the delay when configured as a single stage heat pump and when the start of an **Auxiliary Heat** cycle occurs.	**0, 15, 30, 45, 60, 90** - Time in minutes.

Table 4-7 HVAC Settings Field Descriptions (Continued)

Field	Description	Parameters
Fan on Heat	Select to control the fan state during heating cycles. In most HVAC applications, heat activation automatically turns on the fan, but in radiant or baseboard heat applications, the fan is activated by the thermostat upon a call for heat if this feature is enabled.	■ **Enabled** – The fan is forced 'on' during heat cycles. ■ **Disabled** – The fan is ***not*** forced on during heat cycles.
Setpoint Differential	Select to establish the temperature limits above and below the established setpoint, within which the heating or cooling cycle is activated and maintained. The anticipator algorithm operates within this differential range about the setpoint. Optimal comfort is achieved when this differential is set to 2 (default) or 1°F above to 1°F below the setpoint. Reduced cycle time is achieved with a larger differential setting, for example, 4 or 2°F above to 2°F below the setpoint. **Note:** This feature is most often used with the **Max Cycles** per hour features below.	■ 2 °F (1 °C)– +/- 1 °F, (.5 °C) within the setpoint. ■ 3 °F (2.5 °C) +/- 1.5°F, (.75 °C) within the setpoint. ■ 4 °F (2 °C)- +/- 2 °F, (1.0 °C) within the setpoint. ■ 5 °F (2.5 °C)- +/- 2.5 °F, (1.25 °C) within the setpoint. ■ 6 °F (3 °C)-+/- 3 °F, (1.5 °C) within the setpoint.
Max Cool Cycles/hr	Select to limit the number of cooling cycles every hour. For example, if the value is 3 then a cooling cycle can be invoked once in each of the three 20-minute hourly intervals. A subsequent call for cool after the initial cool call in a 20-minute interval is deferred until the start of the next 20-minute interval. **Note:** This feature: ■ Can be defeated by the user if changes are made to override the setpoint settings, either at the thermostat or via the TMI. ■ Only applies to scheduled temperature settings.	■ **Disable** – This feature is disabled and unlimited cooling cycles are allowed. ■ **1-6, 10, 12** – The allowable number of cooling cycles per hour.

Table 4-7 HVAC Settings Field Descriptions (Continued)

Field	Description	Parameters
Max Heat Cycles/hr	Select to limit the number of heating cycles every hour. For example, if the value is 5 then a cooling cycle can be invoked once in each of the five 12-minute hourly intervals. A subsequent call for heat after the initial heat call in a 12-minute interval is deferred until the start of the next 12 minute interval. **Note:** This feature: ■ Can be defeated by the user if changes are made to override the setpoint settings, either at the thermostat or via the TMI. ■ Only applies to scheduled temperature settings.	■ **Disable** – This feature is disabled and unlimited heating cycles are allowed. ■ **1-6, 10, 12** – The allowable number of heating cycles per hour.
A/C Humidity Control (NT150e/h and NT160e/h only)	Select a relative humidity value from 10% to 90%. When the measured RH rises above a preset threshold, the HVAC cooling cycle is initiated. The cycle continues until the humidity level falls 5% below the trigger level or until a heat setpoint is encountered. When a heat setpoint is encountered, the HVAC heating cycle is invoked. After the heat setpoint has been satisfied, the HVAC cooling cycle (to satisfy humidity requirements) is delayed for 5 minutes. Humidity control is intended for moderate moisture control. High humidity environments should also include secondary dehumidification equipment.	■ **Disable** – This feature is disabled and the A/C system may not be used to reduce humidity. ■ **10% – 90%** – Humidity threshold expressed in 5% increments.

Table 4-7 HVAC Settings Field Descriptions (Continued)

Field	Description	Parameters
External/Auxiliary Relay Configuration		
Ext/Aux Relay Trigger (NT150e/h and NT160e/h only)	Select to activate in response to the following events. ■ Zone temperature above a temperature threshold ■ Zone temperature below a temperature threshold ■ Relative Humidity above a temperature threshold ■ Relative Humidity below a temperature threshold ■ Scheduled time occurs The temperature range is from -30°F to +200°F. The humidity range is from 10% to 90%. The above/below temperature relay activation is used to turn on alarming equipment. The above/below humidity feature is used to control external humidification/dehumidification equipment.	■ **Disable** – Disables the External Relay Trigger. ■ **Above Humidity** – Upper limit above which excessive relative humidity activates the External Relay. For more information, see Threshold (NT150e/h and NT160e/h only) (page 4-40). When the relative humidity falls 5% below the trigger point, the External Relay is deactivated. ■ **Below Humidity** – Lower limit below which lower relative humidity activates the External Relay. For more information, see Threshold (NT150e/h and NT160e/h only) (page 4-40). When the relative humidity rises 5% above the trigger point, the External Relay is deactivated. ■ **Above Temperature** – Upper limit above which temperature activates the External Relay. When the temperature falls below trigger threshold minus the setpoint differential, the relay is deactivated. ■ **Below Temperature** – Lower limit below which temperature activates the External Relay. When the temperature rises above the trigger threshold plus the setpoint differential, the relay is deactivated. ■ **Scheduled** – The External Relay Trigger is scheduled. Note: The **Scheduled** option is available on the NT160e/h only.

Table 4-7 HVAC Settings Field Descriptions (Continued)

Field	Description	Parameters
Threshold (NT150e/h and NT160e/h only)	Depending on the action selected by the Ext/Aux Relay Trigger (NT150e/h and NT160e/h only) (page 4-39), this field selects the limits of either temperature or relative humidity as required by the External Relay Trigger action above. This setting is measured in either % relative humidity or degrees Fahrenheit/Celsius.	■ **0% to 90% RH** – For Above humidity limits. When the relative humidity rises above this trigger point, the external relay is activated. When the relative humidity falls 5% below the trigger point, the relay is deactivated. ■ **0% to 90% RH** – For Below humidity limits. When the relative humidity falls below the trigger point, the external relay is activated. When the relative humidity rises 5% above the trigger point, the relay is deactivated. ■ **-30°F(-34°C) to 200°F(95°C)** – For Above temperature limits. When the average temperature rises above this trigger point, the External Relay is activated. When the temperature falls below trigger setpoint minus the setpoint differential, the relay is deactivated. ■ **-30°F(-34°C) to 200°F(95°C)** – For Below temperature limits. When the average temperature falls below the trigger point, the External Relay is activated. When the temperature rises above the trigger setpoint plus the setpoint differential, the relay is deactivated.
Activate Polarity (NT150e/h and NT160e/h only)	Select **Open** or **Closed** for the active state of the **External Rela**y. For example, when the relay is set to a polarity of **Closed**, the relay closes and completes the external circuit when activated.	■ **Open** – Contacts are open and the external circuit is unswitched. ■ **Closed** – Contacts are closed and the external circuit is completed.

Table 4-7 HVAC Settings Field Descriptions (Continued)

Field	Description	Parameters
Activate HVAC Fan (NT150e/h and NT160e/h only)	Select **Enable** to activate the HVAC fan when the **External Relay** is activated. The HVAC fan turns off when the External Relay is deactivated. This feature is best applied when humidification or de/humidification is performed by additional equipment outside the HVAC system but the same duct work is used.	■ **Enable** – Allow airflow in the duct work during External Relay activation. ■ **Disable** – Disallow airflow in the duct work during External Relay activation.
Thermostat Initialization		
Reset on Submit	Select to perform a software reset on the thermostat. All current settings are maintained after the execution of this reset. This reset is performed to return the thermostat to a known state after abnormal behavior.	■ **No Action** (default) – A software reset is NOT performed after clicking **Submit**. ■ **Normal Reboot** ■ **Factory Reset** – Invokes a software reset after clicking **Submit**. **Caution:** When you select Factory Reset all default settings are restored and override the current settings.

Sensor Settings Page

From the **Sensor Settings** page (see Figure 4-18) you can add external thermal sensors and configure zone temperature thermal averaging of the Local or the two Remote Sensors.

Note

This page is not available on the NT100e/h Network Thermostat because the NT100e/h does not support external thermal sensors.

Figure 4-18 Sensor Settings Page

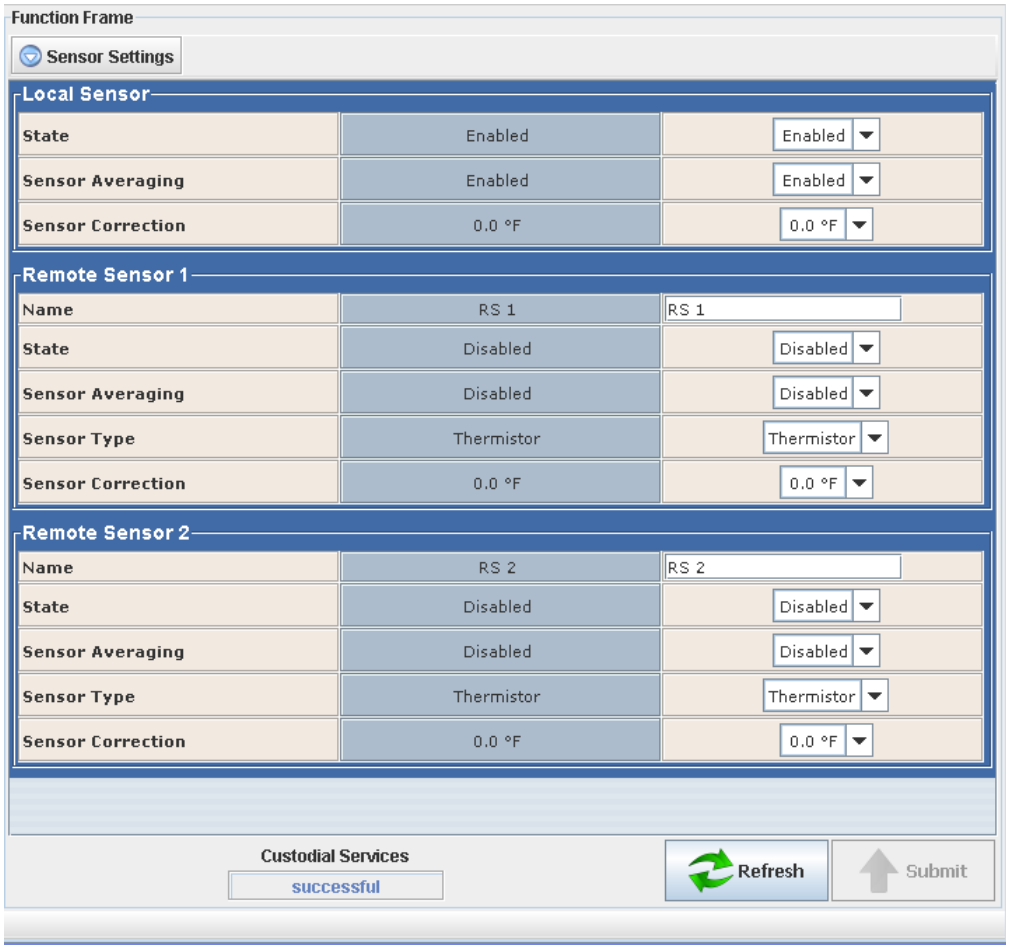


Table 4-8 describes the **Sensor Settings** page fields. Modify the fields as necessary and click **Submit**.

Table 4-8 Sensor Settings Field Descriptions

Field	Description	
Local Sensor		
State	Select to indicate the state of the internal thermostat thermal sensor. The internal thermal sensor may be disabled if only remote sensing is desired.	■ **Disable** – The internal thermal sensor is disabled. No Local Sensor value is displayed on the Status and Control Page (page 4-4). ■ **Enable** (default) – The internal thermal sensor is enabled.
Sensor Averaging	Select to indicate if the thermostat internal thermal sensor should participate in the algebraic averaging of either or both of the Remote Sensors if the Local Sensor is enabled.	■ **Enable** (default) – The internal thermal sensor participates in the algebraic averaging. The Zone Temperature now reflects the average temperature of the averaged measurements. ■ **Disable** – The thermostat internal sensor is excluded from the thermal averaging calculations.
Sensor Correction	Select a value to adjust the sensor for calibration.	**-5 °F (-2.8 °C) through +5°F (2.8°C)** **Note:** The default is **0**.
Remote Sensor 1 and 2		
Name	Enter the name (15 characters) for the external thermal sensor #1/#2.	**RS 1 / RS 2** **Note:** The default is **none**.
State	Select if the external thermal sensor #1 is installed on the thermostat.	■ **Disable** (default) – A remote external thermal sensor is not connected to the thermostat. No **Remote Sensor #1 or #2** value is displayed on the Status & Control Page (page 4-4). ■ **Enable** – A remote external thermal sensor is connected to the thermostat.

Table 4-8 Sensor Settings Field Descriptions (Continued)

Field	Description	
Sensor Averaging	Select if the remote thermal sensor is to participate in the algebraic averaging of either or both of the thermostat (local) sensor or the remaining Remote Sensor. **Note:** This parameter is visible only if the **Remote Sensor #1/#2 State** is enabled.	■ **Disable** (default) – Algebraic thermal averaging is disabled. ■ **Enable** – **Remote Sensor #1/#2** is included in the thermal averaging calculations. The Zone temperature now reflects the average temperature of the averaged measurements.
Sensor Type	Select the remote sensor type so that the appropriate temperature translation table is used to calculate the temperature value. **Note:** Consult the Proliphix web site for a list of sensors available in either type.	■ **Thermistor** (default) – Thermistor-based thermal sensors. ■ **Analog** – Analog-based thermal sensors. ■ **Contact -** Sensors has two values: **OPEN** and **Closed**.
Sensor Correction	Select the calibration or temperature offset compensation for this remote thermal sensor. Offset adjustments are added or subtracted from the actual temperature read from this sensor and displayed as the apparent temperature. This apparent temperature is available for averaging with the other sensors if **Sensor Averaging** is selected.	**-5 °F (-2.8 °C) through +5°F (2.8°C)** – Offset temperature in degrees Fahrenheit or Celsius increments. **Note:** The default is **0**.

Remote Access Page

From the **Remote Access** page (see Figure 4-19) you can configure parameters necessary to invoke and control the intercommunication of the thermostat with a remote server, for example UniVista, for remote access.

Note *When Remote Access is enabled all alarm notifications are sent to the Proliphix Web Server IP address for processing and subsequent transmission as an E-mail.*

Remote Server Configuration

You can access the thermostat remotely from anywhere in the world using a web browser. By default, Proliphix thermostats intercommunicate with UniVista. Certain parameters must be configured in this section to facilitate the remote access feature.

Figure 4-19 Remote Access Page

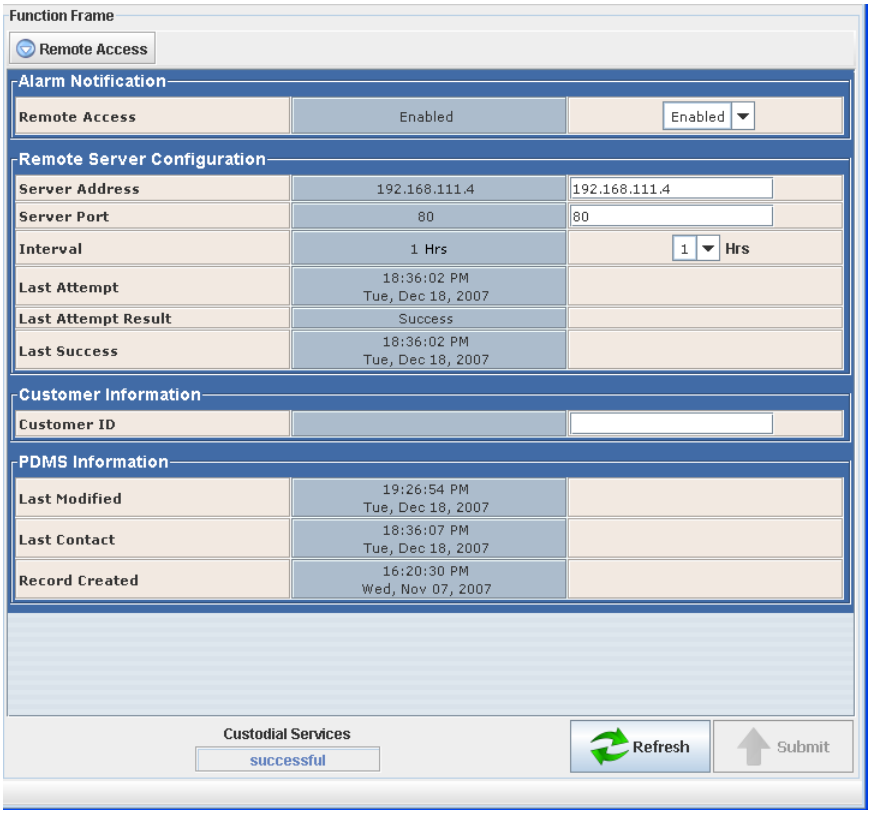


Table 4-9 describes the **Remote Access** page fields. Modify the fields as necessary and click **Submit**.

Table 4-9 Remote Access Page Field Descriptions

Field	Description	Parameters
Alarm Notification		
Remote Access	Select to control whether the Remote Server service is enabled. Remote access is the term used to describe the management and control of the thermostat from networks outside the local subnet on which the thermostat resides. Remote access provides the thermostat with the ability to be controlled from either across the Internet or across multiple corporate subnets to a private UniVista server.	■ **Disable** (default) – Remote Server function is disabled. ■ **Enable** – The thermostat is enabled to communicate with UniVista.
Remote Server Configuration		
Server Address	Enter the IP address of the UniVista server.	Four field standard dot notation for IP address designation.
Server Port	Enter the outgoing IP port number which is used to communicate to with the UniVista server.	Port number of the UniVista server.
Interval	Select the time interval after which the thermostat intercommunicates with the UniVista server to self identify itself as an active and reachable thermostat. This interval is repeated continually as long as **Remote Access** is enabled.	**1(default) - 24 hrs**
Last Attempt	Displays the status of the last attempted intercommunication between the thermostat and the remote server. If there is a good communication connection between the thermostat and the remote server, the server deems that the thermostat is "reachable" and accessible by a user through the Internet or across the corporate network.	■ **mm.dd.yyyy** – Date of last attempt to access the remote server. **Note:** Default status is **No Attempt**. ■ **hh.mm.ss** – Time since last attempt to access the remote server. **Note:** Default status is **No Attempt**.

Table 4-9 Remote Access Page Field Descriptions (Continued)

Field	Description	Parameters
Last Attempt Result	Displays the status of last attempt to initiate the communication to the remote server.	■ **Success** – Last attempt to initiate the communication to the remote server was a success. ■ **Fail** – Last attempt to initiate the communication to the remote server was not successful.
Last Success	Displays the status of the last intercommunication between the thermostat and the remote server. If there is a good communication connection between the thermostat and the remote server, the server deems that the thermostat is reachable and accessible by a user through the Internet.	■ **mm.dd.yyyy** – Date of last successful communication with the remote server. Note: Default status is **No Attempt**. ■ **hh.mm.ss** – Time since last successful communication with the remote server. Note: Default status is **None**.
Customer Information		
Customer ID	Enter a unique customer identifier assigned by Proliphix after you register your thermostat at www.proliphix.com. Registration is required prior to obtaining this ID to ensure that only authorized Proliphix customers may participate in remotely managing their thermostats. **Note:** The field is required only if you want to use the Proliphix Web Server as the remote server for remotely accessing their thermostat. For more information, see *Proliphix Installer Remote Management Guide*.	Eight digit, alpha-numeric identifier assigned by Proliphix in the form of 78F3-AC62.

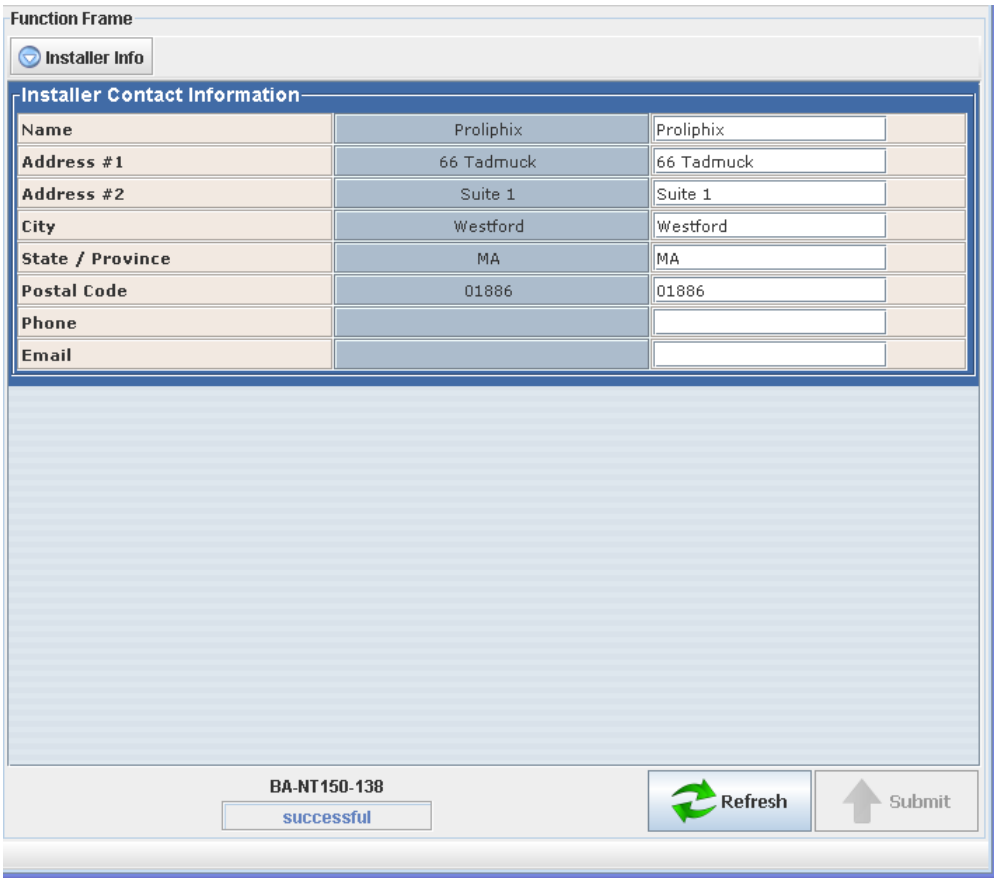
Table 4-9 Remote Access Page Field Descriptions (Continued)

Field	Description	Parameters
PDMS Information		
Last Modified	Displays the last time an operation occurred that changed a value on the device.	
Last Contact	Displays the last time the device contacted the server.	
Record Created	Displays the time the device was first entered into UniVista.	

Installer Info Page

From the **Installer Info** page (see Figure 4-20) you can view the installer's contact information.

Figure 4-20 Installer Info Page



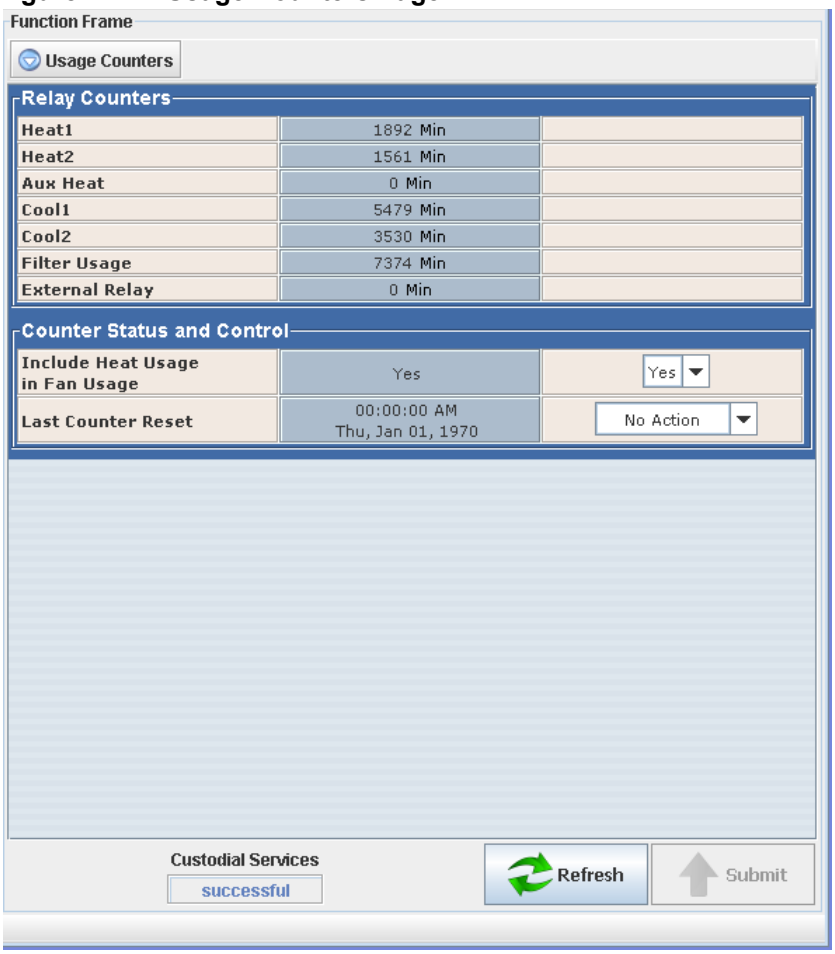
Usage Counters Page

From the **Usage Counters** page (see Figure 4-21) you can view the relay information, for example: **Heat1, Aux Heat, Cool1, Fan,** and the **External Relay** (NT150e/h and NT160e/h only), which provides a minute-accurate duration activity for all relays.

Note

The usage counters that are displayed depend on how your thermostat is configured.

Figure 4-21 Usage Counters Page



Each counter directly accumulates the number of minutes each relay has been active. Only the Admin(istrator) account can reset the current value for each of the counters to zero. To reset the **Fan Usage** counter, click the **Filter Replaced** check box on the General Settings Page (page 4-10).

Table 4-10 describes the **Usage Counter** page fields. Modify the fields as necessary and click **Submit**.

Table 4-10 Usage Counters Page Field Descriptions

Field	Description	Parameter
Relay Counters		
Heat1	Displays the first stage **Heat1** relay minute activity counter. The Admin account user can reset this field by setting **Reset Counters** in the **Last Counter Reset** field.	
Heat2	Displays the first stage **Heat2** relay minute activity counter. The Admin account user can reset this field by setting **Reset Counters** in the **Last Counter Reset** field. **Note:** This field is available in fuel burner mode only.	
Aux Heat	Displays the first stage Aux Heat relay minute activity counter. The Admin account user can reset this field by setting Reset Counters in the Last Counter Reset field. **Note**: This field is available in heat pump mode only.	
Cool1	Displays the first stage **Cool1** relay minute activity counter. The Admin account user can reset this field by setting **Reset Counters** in the Last **Counter Reset** field.	
Cool2	Displays the second stage **Cool2** relay minute activity counter. The Admin account user can reset this field by setting **Reset Counters** in the **Last Counter Reset** field. **Note:** This field is available in fuel burner mode only.	
Fan	Displays the **Fan** relay minute activity counter. Can be reset only by resetting the **Filter Reminder Alarm** setting on the General Settings Page (page 4-10).	
Filter Usage		
Aux Relay (NT150e/h and NT160e/h only)	Displays the **External Relay** minute activity counter. The Admin account user can reset this field by setting **Reset Counters** in the **Last Counter Reset** field.	

Table 4-10 Usage Counters Page Field Descriptions (Continued)

Field	Description	Parameter
Counter Status and Control		
Include Heat Usage in Fan Usage	Select to include heating cycle run time in systems where the fan is used to deliver heat, for example, forced hot air systems.	■ **Yes** to include heating cycle run time. ■ **No** to not include heating cycle run time.
Last Counter Reset	Displays the date and time of the last manual reset of the **Relay Counters**.	■ **No Action** (default) ■ **Reset Counters** – Select to return the counters to zero value (except fan) after clicking **Submit**. – **mm.dd.yyyy** – Date of the last manual reset of the **Relay Counters**. – **hh.mm.ss** – Time since last the last manual reset of the **Relay Counters**.

Chapter 5

Maintaining and Monitoring UniVista

This chapter describes the maintenance and monitoring functions you can perform using UniVista.

Specifically, it describes the following sections:

- Managing Devices (page 5-2)
- Managing Folders (page 5-5)
- Managing Accounts (page 5-7)
- Managing Groups (page 5-13)
- Using Configuration Files (page 5-21)
- Viewing Action and Alarm Information (page 5-28)
- Managing the License Subscription (page 5-35)
- Viewing System Information (page 5-36)
- Logging Out of UniVista (page 5-37)

Note

You can perform these functions in any order.

Managing Devices

In addition to adding devices to the folder tree (see Adding a Device (page 3-6)), you can view and modify a device's information and delete devices from the folder tree.

For more information about managing devices, see the following sections:

- Viewing a Device's Information (page 5-2)
- Editing a Device (page 5-3)
- Deleting a Device (page 5-4)

Viewing a Device's Information

You can view the a device's network and model information, for example, IP address, port, and serial number.

To view a device's network and model information:

1 Click the **System Summary** management tab.

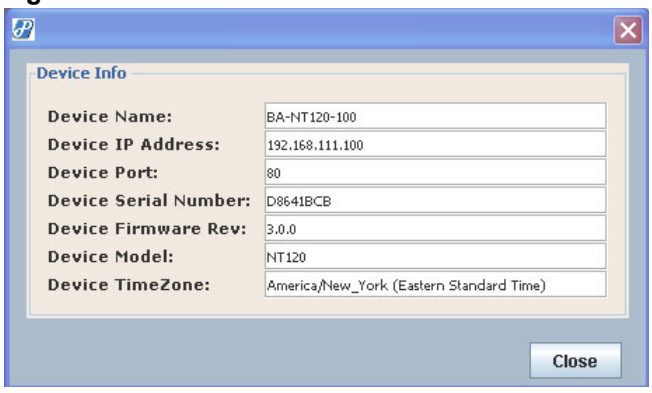
1 Select the device for which you want to view information.

2 Do one of the following:

- Right-click and select **Device Info**.
- From the main menu, select **Device** => **Device Info**.

The **Device Info** window appears and displays the device's network and model information. See Figure 5-1.

Figure 5-1 Device Info Window



3 Click **Close**.

Editing a Device

To edit a device's information:

1 Click the **System Summary** management tab.

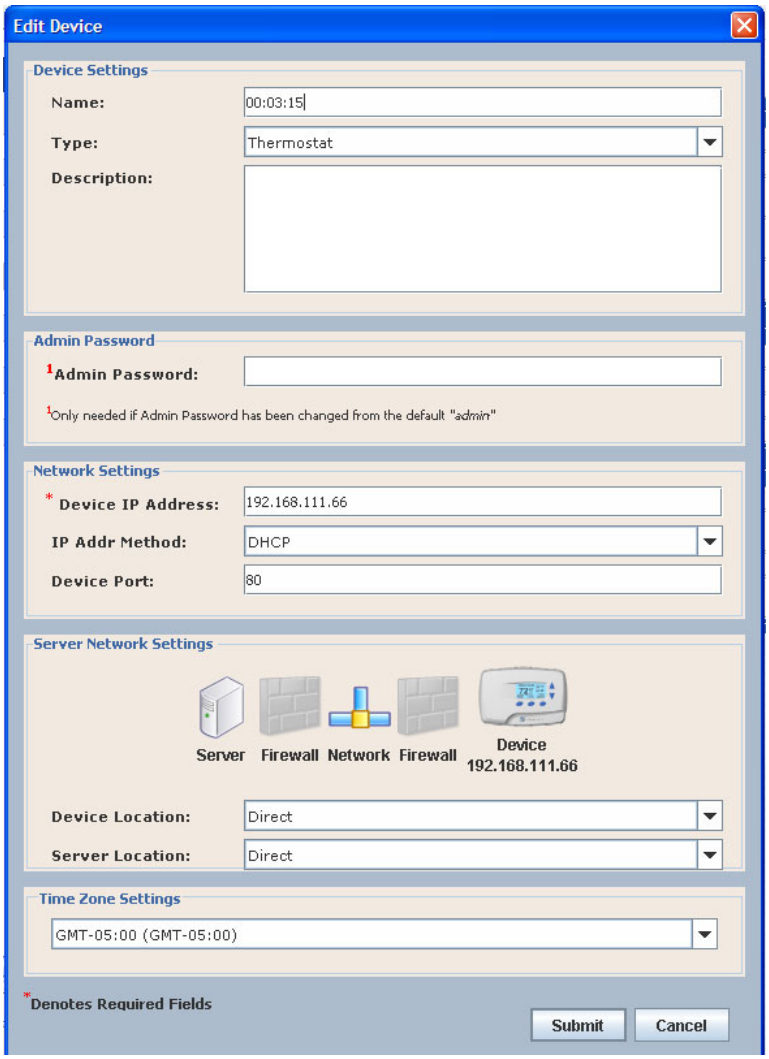
1 From the folder tree, select the device you want to edit.

2 Do one of the following:

- Right-click and select **Edit Device**.
- From the main menu, select **Device** => **Edit Device**.

The **Edit Device** window appears. See Figure 5-2.

Figure 5-2 Edit Device Window



3 Modify the fields as necessary. For more information, see Table 3-2 on page 3-7.

4 Click **Submit**.

Deleting a Device

To delete a device from the folder tree:

1 Click the **System Summary** management tab.

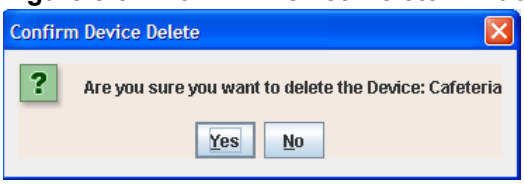
1 From the folder tree, select the device you want to delete.

2 Do one of the following:

- Right-click and select **Delete Device**.
- From the main menu, select **Device** => **Delete Device**.

The **Confirm Device Delete** window appears. See Figure 5-3.

Figure 5-3 Confirm Device Delete Window



3 Click **Yes** to delete the device or **No** to cancel without any changes.

Managing Folders

In addition to adding folders to the folder tree (see Adding a Folder (page 3-5)), you can edit and delete devices from the folder tree.

For more information about managing folders, see the following sections:

- Editing a Folder (page 5-5)
- Deleting a Folder (page 5-6)

Editing a Folder

To edit a folder's information:

1 Click the **System Summary** management tab.

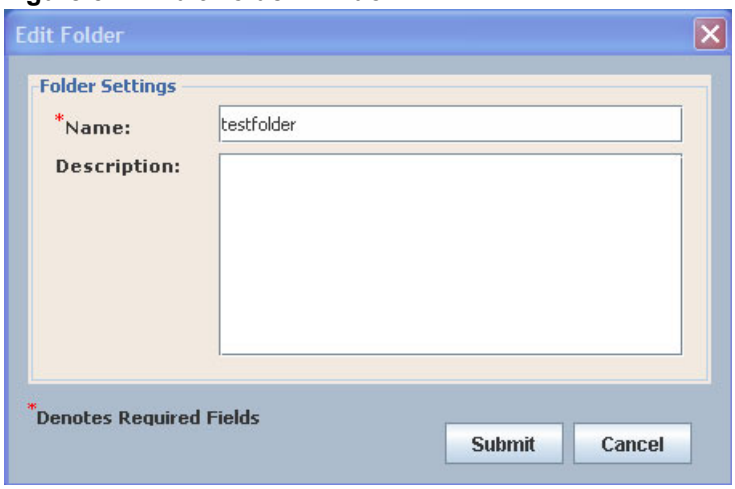
1 From the folder tree, select the folder you want to edit.

2 Do one of the following:

- Right-click and select **Edit Folder**.
- From the main menu, select **Folder** => **Edit Folder**.

The **Edit Folder** window appears. See Figure 5-4.

Figure 5-4 Edit Folder Window



3 Modify the **Name** and/or **Description** as necessary.

4 Click **Submit**.

Deleting a Folder

To delete a folder from the folder tree:

1 Click the **System Summary** management tab.

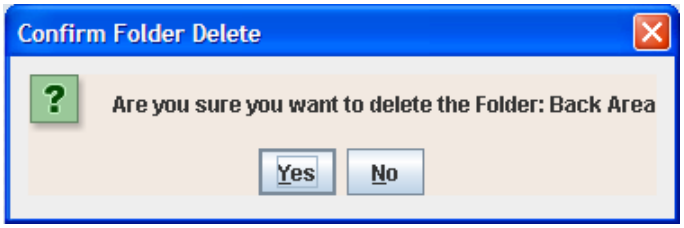
1 From the folder tree, select the folder you want to delete.

2 Do one of the following:

- Right-click and select **Delete Folder**.
- From the main menu, select **Folder** => **Delete Folder**.

The **Confirm Folder Delete** window appears. See Figure 5-5.

Figure 5-5 Confirm Device Delete Window



3 Click **Yes** to delete the device or **No** to cancel without any changes.

Managing Accounts

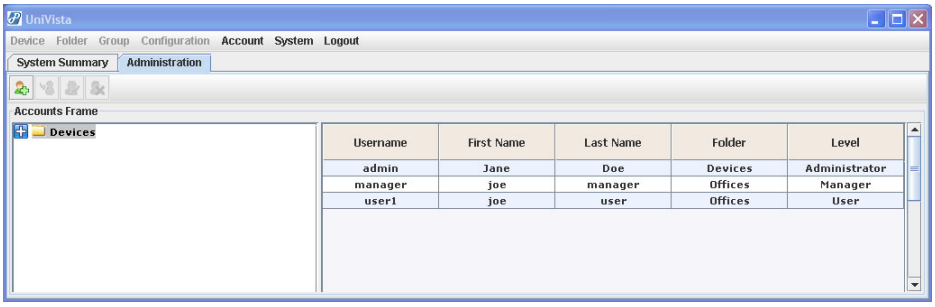
Note

Only the Administrator can manage accounts.

You configure accounts using the **Administration** management tab. From **Administration** management tab, you can add, delete, and edit user accounts.

The **Accounts Frame** (see Figure 5-6) displays the folder tree on the left side of the screen and the usernames, folders to which the user's are assigned, and permission levels on the right side of the screen.

Figure 5-6 Administration Accounts Frame



For more information about managing accounts, see the following sections:

- Adding Accounts (page 5-8)
- Associating Accounts and Folders (page 5-10)
- Editing Accounts (page 5-11)
- Deleting Accounts (page 5-12)

Adding Accounts

To add a new account:

1 Click the **Administration** management tab.

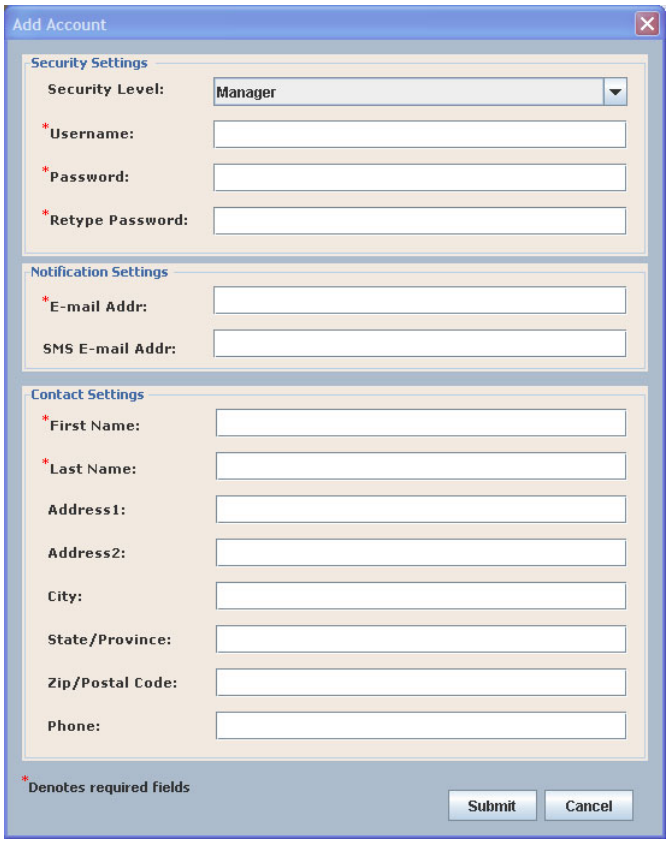
2 Select a folder within the folder tree.

3 Do one of the following:

- From the main menu, select **Account** => **Add Account**.
- From under the **Administration** tab, click the **Add Account** icon .
- From anywhere within the Accounts Frame, right-click and select **Add Account**.

The **Add Account** window appears. See Figure 5-7.

Figure 5-7 Add Account Window



4 Complete the fields as described in Table 5-1.

Table 5-1 Add Account Dialog Box Fields

Field	Description
Security Settings	
Security Level	Select a security level for the user.

Table 5-1 Add Account Dialog Box Fields (Continued)

Field	Description
*Username	Enter a username for this user.
*Password	Enter a password for this user.
*Retype Password	Enter the same user password again.
Notification Settings	
*E-mail Addr	Enter the E-mail address for this user.
SMS E-mail Addr	Enter the SMS E-mail address for this user.
Contact Settings	
*First Name	Enter the first name of the person for which this user account is being created.
*Last Name	Enter the last name of the person for which this user account is being created.
Address 1	Enter the address.
Address 2	Enter the address.
City	Enter the city.
State/Province	Enter the state or province.
Zip/Postal Code	Enter the zip or postal code.
Phone #	Enter the phone number associated with this user account.

5 Click **OK**.

The new account is added to the user list on the right side of the Function Frame.

Associating Accounts and Folders

To associate a folder with an account:

1. Click the **Administration** management tab.
2. Select a user account.
3. Select a folder within the folder tree.
4. Do one of the following:
   - From the main menu, select **Account** => **Associate Account**.
   - From under the **Administration** tab, click the **Associate Account** icon .
   - From anywhere within the Accounts Frame, right-click and select **Associate Account**.

   The selected folder and account are now associated and the folder name appears in the account table.

Editing Accounts

To edit an existing account:

1 Click the Administration management tab.

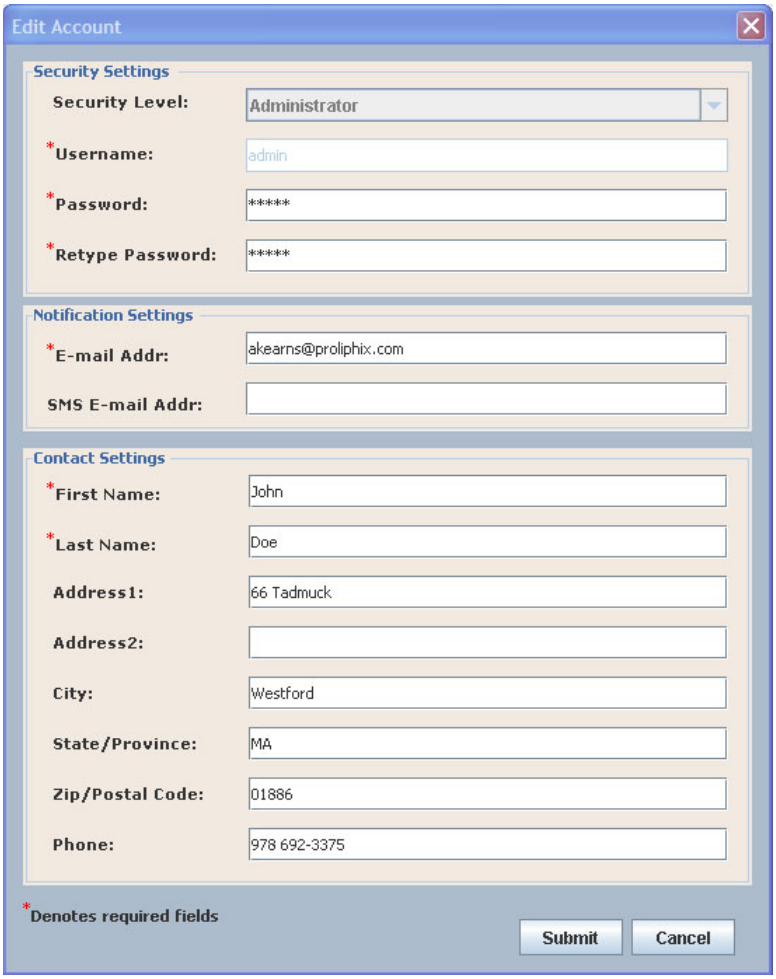
2 Select the user account you want to edit.

3 Do one of the following:

- Right-click and select **Edit Account**.
- From the main menu, select **Account** => **Edit Account**.
- From under the Administration tab, click the **Edit Account** icon .

The **Edit Account** window appears. See Figure 5-8.

Figure 5-8 Edit Account Dialog Window



4 Click **Submit**.

Deleting Accounts

To delete an existing account:

1 Click the **Administration** management tab.

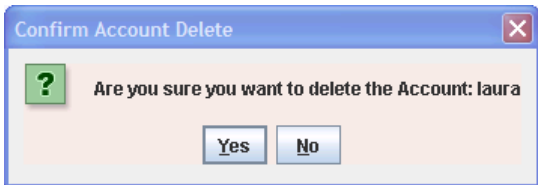
2 Select the user account that you want to delete.

3 Do one of the following:

- Right-click and select **Delete Account**.
- From the main menu, select **Account** => **Delete Account**.
- From under the Administration tab, click the **Delete Account** icon .

The **Confirm Account Delete** window appears. See Figure 5-9.

Figure 5-9 Confirm Account Dialog Window



4 Click **Yes** to delete the account or **No** to cancel without any changes.

Managing Groups

Note

Only the Administrator and Managers can manage groups.

Groups are used to manage a number of devices with common features and/or attributes. You can assign a device and/or folder to a group and use this group during aggregate operations.

To overall process to create, configure, load, and use groups:

1 Create (add) a new group.

For information on creating groups, see Creating a Group (page 5-15).

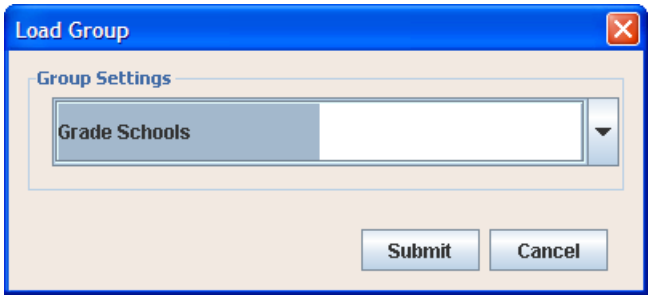
2 Select which folders and/or devices you want to add to this group.

For information on adding folders and/or devices to a group see, Adding Devices to and Removing Devices from a Group (page 5-17).

3 Select **Groups** => **Load Group**.

The **Load Group** window appears. See Figure 5-10.

Figure 5-10 Load Group Window



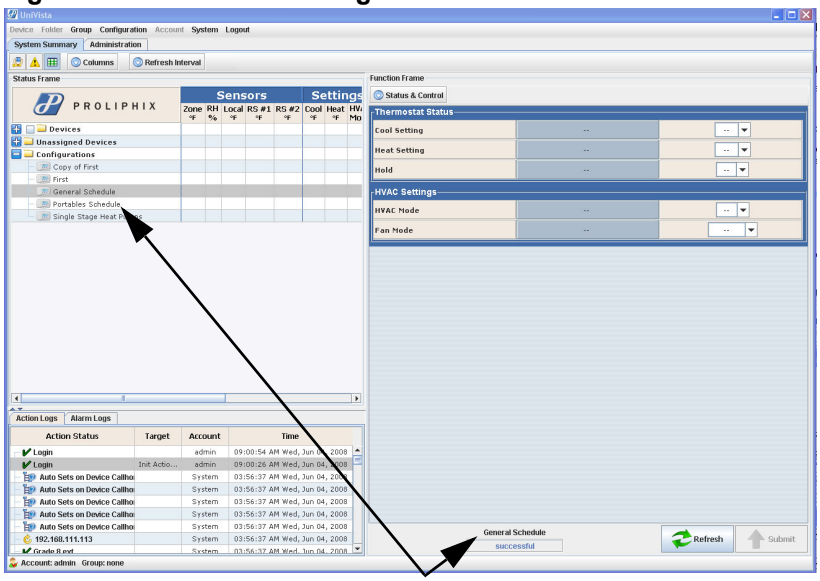
4 Select the appropriate group from the drop-down list.

5 Click **Submit** to load this group of folders/devices.

6 Once this group is loaded, select/highlight the configuration file(s) you want to apply to the group.

For example, in Figure 5-11 the configuration file **General Schedule** is selected/highlighted.

Figure 5-11 Selected Configuration File



The configuration file is displayed in the Function Frame window.

7 Click **Apply** to apply the configuration file to the devices in the group.

You have now successfully created and loaded your group and successfully updated the configurations to all the devices in that group.

In addition to creating groups, you can view the members of the group, add devices to and remove devices from an existing group, edit a group's name and/or description, and delete groups. For more information, see the following sections:

For more information about managing groups, see the following sections:

- Creating a Group (page 5-15)
- Loading a Group (page 5-16)
- Adding Devices to and Removing Devices from a Group (page 5-17)
- Editing a Group (page 5-19)
- Unloading a Group (page 5-19)
- Selecting and De-Selecting all Groups (page 5-19)
- Deleting a Group (page 5-20)

Creating a Group

To create a new group:

1. Click the **System Summary** management tab.
2. In the folder tree, click the box(es) next to the device(s) and/or folder(s) for which you want to create a group.

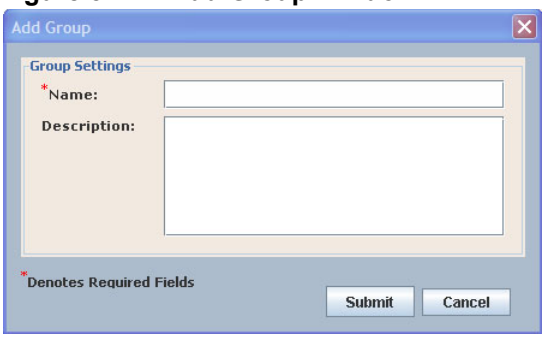
Note

For information about selecting devices, see Summary of Selecting a Single Device or Mulitple Devices (page 2-12).

3. From the main menu, select **Group** => **Add Group**.

   The **Add Group** window appears. See Figure 5-12.

Figure 5-12 Add Group Window



4. Enter a **Name** (required) and a **Description** (optional) for the new group.
5. Click **Submit**.

Loading a Group

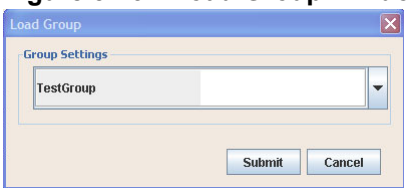
To load and view a specific group of devices:

1 Click the **System Summary** management tab.

2 From the main menu, select **Group** => **Load Group**.

The **Load Group** window appears. See Figure 5-13.

Figure 5-13 Load Group Window



3 From the drop-down list, click the arrow to display all configured groups and select the group you would like to load.

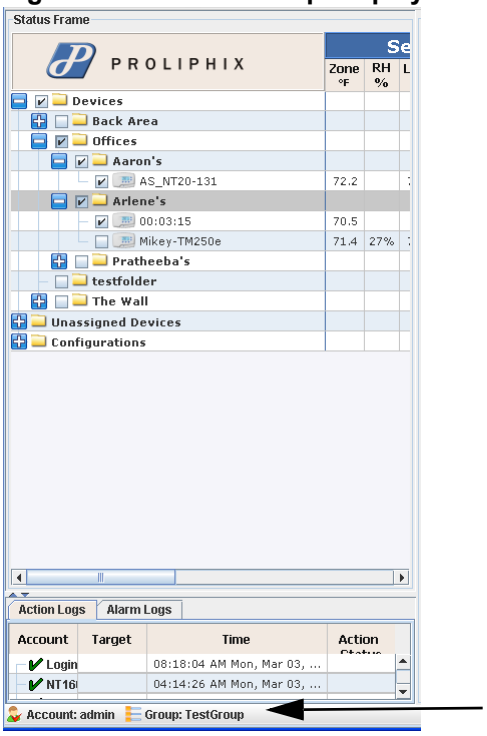
4 Click **Submit**.

The folder tree displays a ☑ next to all the:

- Folders that are members or contain a member of the group.
- Devices that are members.

See Figure 5-14.

Figure 5-14 Load Group Display



Note

*When a group or dynamic group is loaded then the current values within the Function Frame display "**--**" to show each member of the group may be configured differently.*

Note

*The name of the group is displayed at the bottom of the **Status Frame**.*

Adding Devices to and Removing Devices from a Group

To add a device to or remove a device from an existing group:

1 Click the **System Summary** management tab.

1 Load the group to which you want to add/remove a device or folder.

For information about loading groups, see Loading a Group (page 5-16).

2 In the folder tree:

- Click the box(es) next to the device(s) and/or folder(s) you want to add to the group.
- Un-click the box(es) next to the device(s) and/or folder(s) you want to remove from the group.

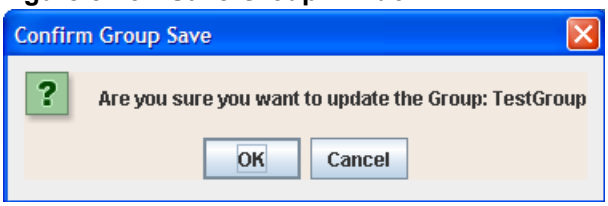
Note

For additional information about selecting devices, see Summary of Selecting a Single Device or Mulitple Devices (page 2-12).

3 From the main menu, select **Group** => **Save Group**.

The **Confirm Save Group** window appears. See Figure 5-15.

Figure 5-15 Save Group Window



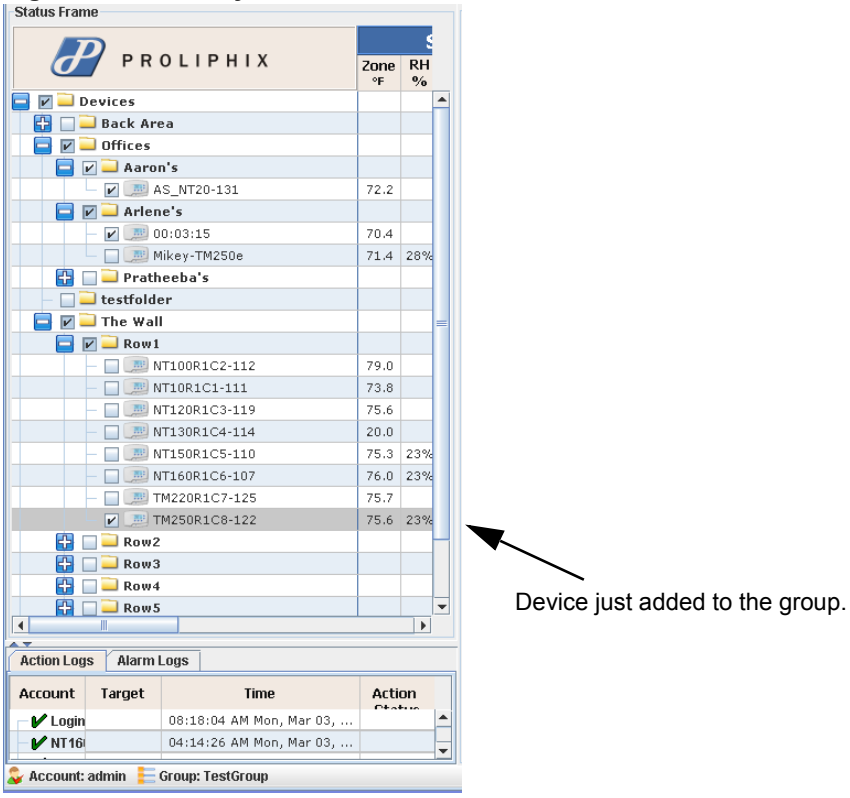
4 Click **OK** to confirm the change or **Cancel** to cancel without any changes.

If you click **OK**, the folder tree:

- Displays a ☑ (see Figure 5-16 on page 5-18) next to the:
  - Device, indicating the device is now assigned to the group.
  - Folder(s) in which the device is contained, indicating a device contained in the folder is now assigned to the group.
- Removes the ☑ next to the:
  - Device, indicating the device is no longer assigned to the group.
  - Folder(s) in which the device is contained, indicating a device contained in the folder is no longer assigned to the group.

Note *The ☑ is removed from the folder(s) only if the newly removed device was the only device in the Folder(s) associated with the group.*

Figure 5-16 Newly Added Device Window



Editing a Group

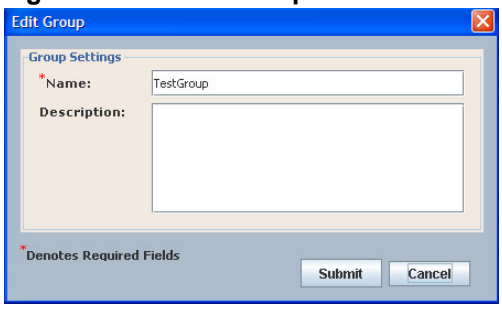
To modify the name and/or description of a group:

1. Click the **System Summary** management tab.
2. Load the group for which you want to modify the name and/or description.

   For information about loading groups, see Loading a Group (page 5-16).
3. From the main menu, select **Group** => **Edit Group**.

   The **Edit Group** window appears. See Figure 5-17.

Figure 5-17 Edit Group Window



4. Edit the **Name** and/or **Description** as needed.
5. Click **Submit**.

Unloading a Group

To unload a group, from the main menu click **Group** => **Unload Group**.

Selecting and De-Selecting all Groups

You can select and de-select all the groups at one time. To do so, from the main menu click:

- **Group** => **Select All** to select all the groups.
- **Group** => **De-Select All** to de-select all the groups.

Note *When you toggle back and fourth between **Select All** and **De-Select All**, the name of the last loaded group is displayed at the bottom of the Function Frame.*

Deleting a Group

Note *When you delete a group, you delete only the association between the device and the group. You do not delete the device itself.*

To delete a group:

1. Click the **System Summary** management tab.
2. From the main menu, select **Group** => **Delete Group**.

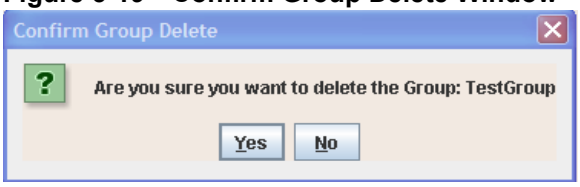
   The **Delete Group** window appears. See Figure 5-18.

Figure 5-18 Delete Group Window

3. From the drop-down list, click the arrow to display all configured groups and select the name of the group you would like to delete.
4. Click **Submit**.

   The **Confirm Group Delete** window appears. See Figure 5-19.

Figure 5-19 Confirm Group Delete Window



5. Click **Yes** to delete the group or **No** to cancel without any changes.

Using Configuration Files

You can configure multiple devices at once using configuration files. Each configuration file acts as a "virtual" thermostat, meaning that you configure each page just as you would configure a thermostat. Each page displays "--" in all the fields. If you do not enter anything into these fields then the fields are not modified when the configuration file is applied to a device. You can make a single change to multiple devices at once or configure multiple devices in their entirety.

The intent of these configuration files is to build a configuration file with specific set of parameters but not necessarily configure all the Function Frame option parameters, however that may be done as well.

The following is a list of the Function Frame pages that you can configure:

- Status & Control
- General Settings
- Alarm Settings
- Schedule Settings
  - Calendar
  - Special Day
- Network Settings
- HVAC Settings
- Sensor Settings
- Remote Access
- Installer Info
- Usage Counters

For example, you can create one configuration file to define the **Schedule Settings** parameters only and then download the configuration file to one or multiple devices to apply the changes to the **Scheduled Settings** pages. In addition, you could configure all the Function Frame parameters for each category/page and have a complete configuration defined that could be applied to one or multiple devices.

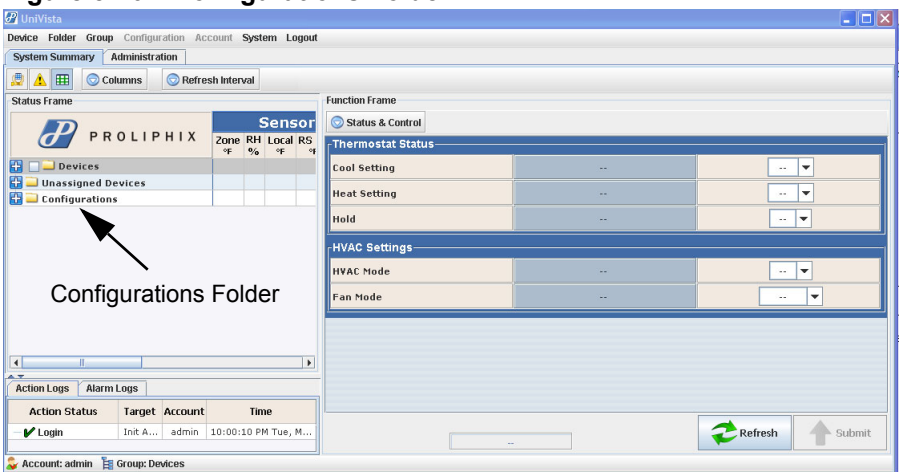
When you create your first configuration file, you must create it manually and click **Submit** to save the changes. You must click the **Submit** button for each page you modify before moving to a new category/page. For more information, see Creating a Configuration File (page 5-23).

Note

Each page of the Function Frame contains a superset of parameters specific to that page. Therefore, there may be fields on each page that do not apply to all device models.

You create configuration files and save them to the **Configurations** folder in the folder tree. See Figure 5-20.

Figure 5-20 Configurations Folder



For more information about using configuration files, see the following sections:

- Creating a Configuration File (page 5-23)
- Saving a Configuration File (page 5-24)
- Applying a Configuration File (page 5-25)
- Editing a Configuration File (page 5-26)
- Copying a Configuration File (page 5-27)
- Deleting a Configuration File (page 5-27)

Creating a Configuration File

To create a new configuration file:

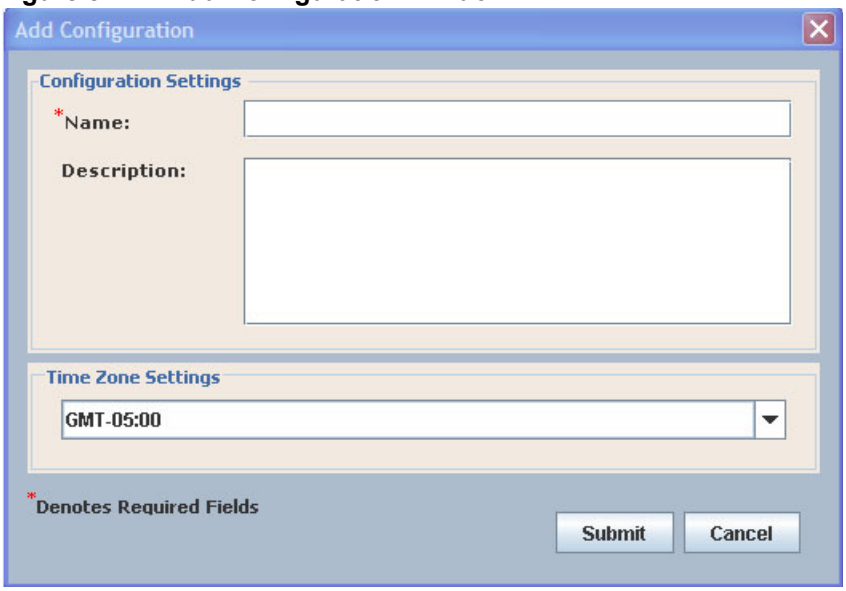
1 Click the **System Summary** management tab.

2 From the folder tree, highlight the Configurations folder and do one of the following:

- Right-click and select **Add Configuration**.
- From the main menu, select **Configuration** => **Add Configuration**.

The **Add Configuration** window appears. See Figure 5-21.

Figure 5-21 Add Configuration Window



3 Enter a **Name** (required) and a **Description** (optional) for the new configuration file.

4 Select the appropriate **Time Zone** (optional) for the new configuration file.

5 Click **Submit** to save the new configuration file.

Saving a Configuration File

After you have created a configuration file you can then tailor the configuration file for a specific purpose. Each file can be tailored to make one or many changes across multiple devices.

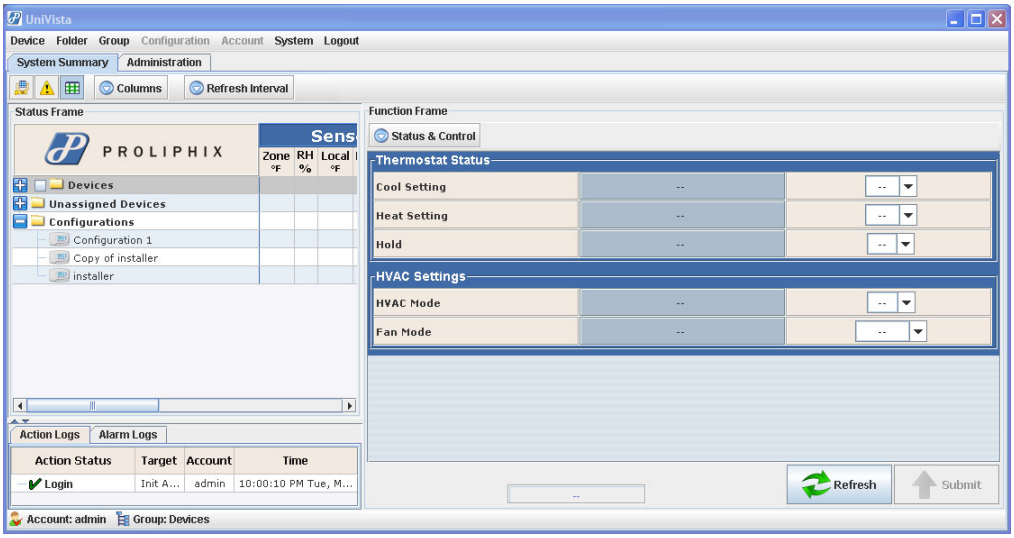
To save a configuration file:

1 Click the **System Summary** management tab.

2 From the Configuration folder in the folder tree, highlight the appropriate configuration file you want to save.

The Function Frame displays the **Status and Control** page with dashes in all the settings and parameters, as well as the appropriate configuration filename at the bottom of the Function Frame. See Figure 5-22.

Figure 5-22 Configurations - Function Frame



3 Select the appropriate page in the Function Frame you want to modify.

4 Make the change to the appropriate field and click **Submit** to save the change.

Note

You must click "Submit" on each page to save the change.

The configuration file is saved with the appropriate change.

5 Repeat step 3 and step 4 as necessary.

Applying a Configuration File

To apply a configuration file:

1. Click the **System Summary** management tab.
2. From the folder tree, select the device(s) to which you want to apply a configuration file:
   - Click the box(es) for the appropriate device(s) and verify that at least one device is highlighted.
   - To apply a configuration file to a specific group of devices, load the appropriate group. For more information, see Loading a Group (page 5-16).
3. From the **Configurations** folder in the folder tree, highlight the appropriate configuration file you want to apply.

   The Function Frame displays the pages for the configuration file.
4. Select the appropriate page in the Function Frame that you want to apply to the device.

Note

*If necessary, you can make additional changes to each page of the configuration file immediately before you apply the file to the device. To make a change, modify the file and click **Submit**. Continue with step 5.*

5. Click **Apply** to apply the configuration for that page to the device.

Note

*You must click **Apply** on each page to apply the configuration file to the device.*

6. Repeat step 4 and step 5 as necessary.

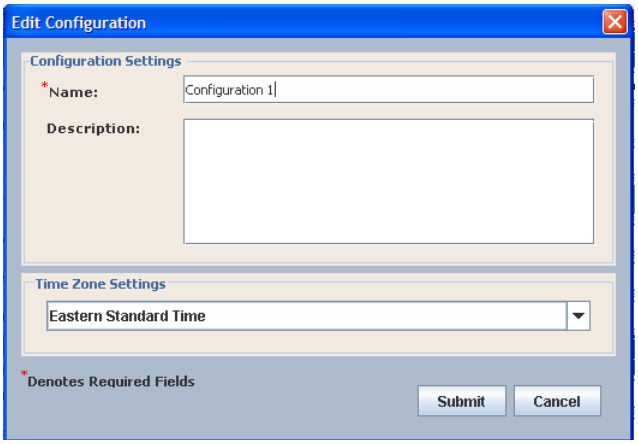
Editing a Configuration File

To edit a configuration file's name, description, and/or timezone:

1. Click the **System Summary** management tab.
2. From the folder tree, highlight the configuration file you want to edit and do one of the following:
   - Right-click and select **Edit Configuration**.
   - From the main menu, select **Configuration** => **Edit Configuration**.

   The **Edit Configuration** window appears. See Figure 5-23.

Figure 5-23 Edit Configurations Window



3. Edit the **Name**, **Description**, and/or **Time Zone** as needed.
4. Click **Submit**.

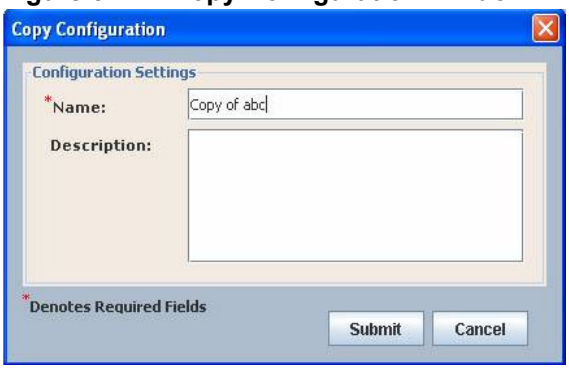
Copying a Configuration File

To copy a configuration file:

1. Click the **System Summary** management tab.
2. From the folder tree, highlight the configuration file you want to edit and do one of the following:
   - Right-click and select **Copy Configuration**.
   - From the main menu, select **Configuration** => **Copy Configuration**.

   The **Copy Configuration** window appears. See Figure 5-24.

Figure 5-24 Copy Configuration Window



3. Edit the **Name** and **Description** as needed for the new configuration.
4. Click **Submit** to save the new configuration.

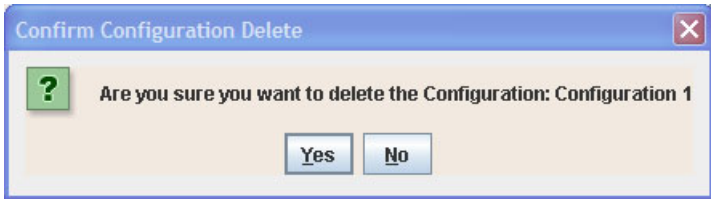
Deleting a Configuration File

To delete a configuration file:

1. Click the **System Summary** management tab.
2. From the folder tree, highlight the configuration file you want to edit and do one of the following:
   - Right-click and select **Delete Configuration**.
   - From the main menu, select **Configuration** => **Delete Configuration**.

   The **Confirm Configuration Delete** window appears. See Figure 5-25.

Figure 5-25 Confirm Configuration Delete Window



3. Click **Yes** to delete the configuration file or **No** to cancel without saving any changes.

Viewing Action and Alarm Information

UniVista logs all actions and alarms that occur on a specific device, as well as over the entire network as they occur.

For more information about viewing actions and alarms, see the following sections:

- Viewing log files for an Individual Device (page 5-28)
- Viewing log files for the Entire Network (page 5-33)
- Viewing all Alarms in the Folder Tree (page 5-34)

Viewing log files for an Individual Device

You view the log files for a specific device using the Function Frame (see Figure 4-1 on page 4-2). From this window you can navigate to the **Callhome Log, Action Log,** and **Alarm Log** pages.

For more information about the log files for a specific device, see the following sections:

- Displaying the Callhome Log (page 5-29)
- Displaying the Action Log (page 5-30)
- Displaying the Alarm Log (page 5-31)

Displaying the Callhome Log

UniVista stores the times the device has contacted the server in the **Callhome Log**.

To view the Callhome Log:

1. Click the **System Summary** management tab.
2. Select the device for which you want to display the **Callhome Log**.
3. From the Function Frame, click the drop-down list.
4. Select **Callhome Log**.

The **Callhome Log** appears. See Figure 5-26.

Figure 5-26 Callhome Log

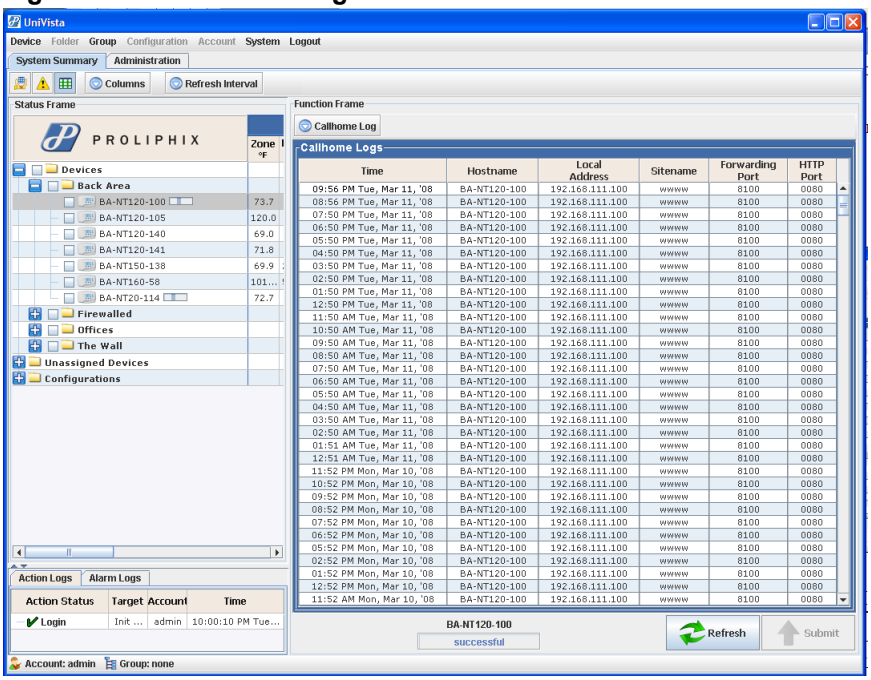


Table 5-2 describes the **Callhome Log** fields.

Table 5-2 Callhome Log Fields

Field	Displays...
Time	The time the device contacted the server.
Hostname	The name of the device that contacted the server.
Local Address	The server IP address.
Sitename	The server name.
Forwarding Port	The server port.
HTTP Port	The HTTP port.

Displaying the Action Log

UniVista stores the actions being performed and the arguments to that action, including devices to which the action is applied, in the **Action Log**.

To view the Action Log:

1 Click the **System Summary** management tab.

2 Select the folder or device for which you want to display the **Action Log**.

Note

*You can view the **Action Log** for both a folder and a device.*

3 From the Function Frame, click the drop-down list.

4 Select **Action Log**.

The **Action Log** appears. See Figure 5-27.

Figure 5-27 Action Log

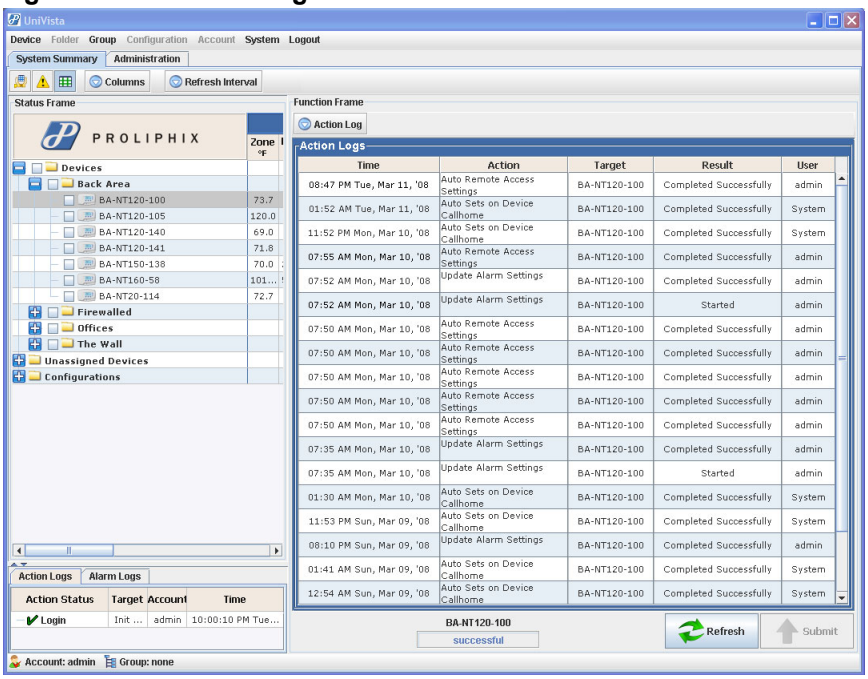

UniVista
Device Folder Group Configuration Account System Logout
System Summary Administration
Columns Refresh Interval
Status Frame
PROLIPHIX
Zone °F
Devices
Back Area
BA-NT120-100 73.7
BA-NT120-105 120.0
BA-NT120-140 69.0
BA-NT120-141 71.8
BA-NT150-138 70.0
BA-NT160-58 101...
BA-NT20-114 72.7
Firewalled
Offices
The Wall
Unassigned Devices
Configurations
Action Logs Alarm Logs
Action Status Target Account Time
Login Init ... admin 10:00:10 PM Tue...
Account: admin Group: none
Function Frame
Action Log
Action Logs
Time Action Target Result User
08:47 PM Tue, Mar 11, '08 Auto Remote Access Settings BA-NT120-100 Completed Successfully admin
01:52 AM Tue, Mar 11, '08 Auto Sets on Device Callhome BA-NT120-100 Completed Successfully System
11:52 PM Mon, Mar 10, '08 Auto Sets on Device Callhome BA-NT120-100 Completed Successfully System
07:55 AM Mon, Mar 10, '08 Auto Remote Access Settings BA-NT120-100 Completed Successfully admin
07:52 AM Mon, Mar 10, '08 Update Alarm Settings BA-NT120-100 Completed Successfully admin
07:52 AM Mon, Mar 10, '08 Update Alarm Settings BA-NT120-100 Started admin
07:50 AM Mon, Mar 10, '08 Auto Remote Access Settings BA-NT120-100 Completed Successfully admin
07:50 AM Mon, Mar 10, '08 Auto Remote Access Settings BA-NT120-100 Completed Successfully admin
07:50 AM Mon, Mar 10, '08 Auto Remote Access Settings BA-NT120-100 Completed Successfully admin
07:50 AM Mon, Mar 10, '08 Auto Remote Access Settings BA-NT120-100 Completed Successfully admin
07:50 AM Mon, Mar 10, '08 Auto Remote Access Settings BA-NT120-100 Completed Successfully admin
07:35 AM Mon, Mar 10, '08 Update Alarm Settings BA-NT120-100 Completed Successfully admin
07:35 AM Mon, Mar 10, '08 Update Alarm Settings BA-NT120-100 Started admin
01:30 AM Mon, Mar 10, '08 Auto Sets on Device Callhome BA-NT120-100 Completed Successfully System
11:53 PM Sun, Mar 09, '08 Auto Sets on Device Callhome BA-NT120-100 Completed Successfully System
08:10 PM Sun, Mar 09, '08 Update Alarm Settings BA-NT120-100 Completed Successfully admin
01:41 AM Sun, Mar 09, '08 Auto Sets on Device Callhome BA-NT120-100 Completed Successfully System
12:54 AM Sun, Mar 09, '08 Auto Sets on Device Callhome BA-NT120-100 Completed Successfully System
BA-NT120-100
successful
Refresh
Submit

Table 5-3 describes the **Action Log** fields.

Table 5-3 Action Log Fields

Field	Displays...
Time	The date and time the action was performed.
Action	The type of action performed.
Target	The name of the device on which the action was performed.
Result	The result of the action.
User	The account information of the user who performed the action.

Displaying the Alarm Log

UniVista stores the alarm information generated on the device in the **Alarm Log**.

To view the Alarm Log:

1. Click the **System Summary** management tab.
2. Select the device for which you want to display the **Alarm Log**.
3. From the Function Frame, click the drop-down list.
4. Select **Alarm Log**.

The **Alarm Log** appears. See Figure 5-28.

Figure 5-28 Alarm Log

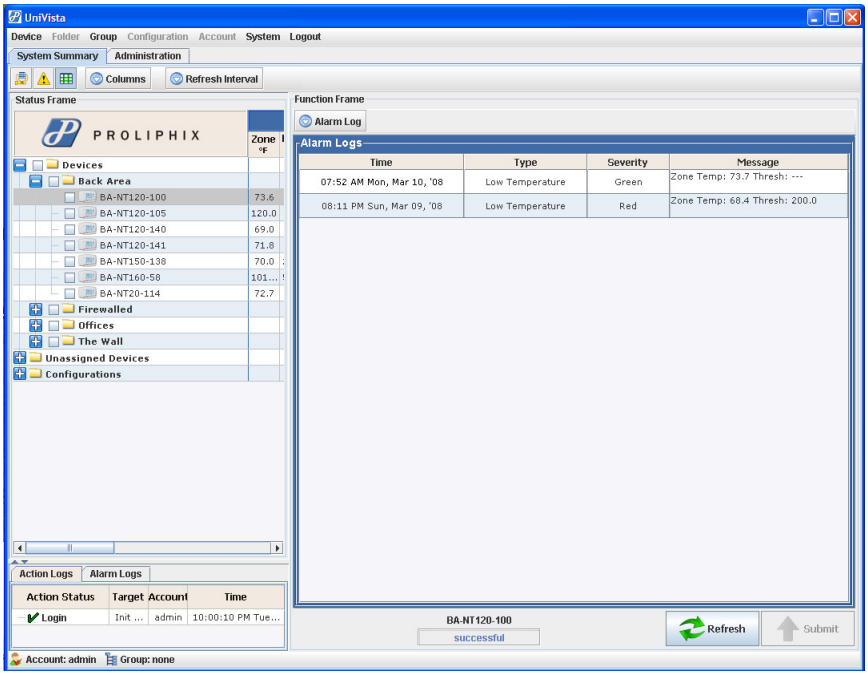


Table 5-4 describes the **Alarm Log** fields.

Table 5-4 Alarm Log Fields

Field	Displays...
Time	The date and time the alarm occurred.
Type	The type of alarm that occurred.
Severity	The alarm's severity.
Message	The reason for the alarm.

Viewing log files for the Entire Network

You view the log files generated for the entire network using the **Action Logs** and **Alarm Logs** tabs located directly below the Status Frame (see Figure 2-6 on page 2-7).

Note *The **Action Logs** and **Alarm Logs** tables are updated as new actions occur and new alarms are generated.*

Action Logs

The **Action Logs** (see Figure 5-29) displays system-wide actions that include device operations as well as changes to the UniVista server.

Note *The **Action Log** displays the previous 72 hours of actions.*

Figure 5-29 Action Logs - System-Wide Window

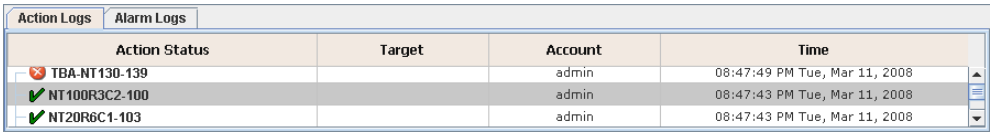


Table 5-5 describes the system-wide **Action Log** fields.

Table 5-5 Action Log - System-Wide Fields

Field	Displays...
Action Status	The type of action that occurred.
Target	The device or system element on which the action was performed.
Account	The user account that performed the action.
Time	The date and time the action occurred.

Click an action to select the action. If the action has a valid target, such as changing a setting on the thermostat, when you right-click the action a Visit Node menu item appears. Select this menu item and the device or folder associated with the action is selected.

Alarm Logs

The **Alarm Logs** (see Figure 5-30) shows system-wide alarms that include device operations as well as changes to the UniVista server.

Note

*The **Alarm Log** displays the previous 72 hours of alarms.*

Figure 5-30 Alarm Logs - System-Wide

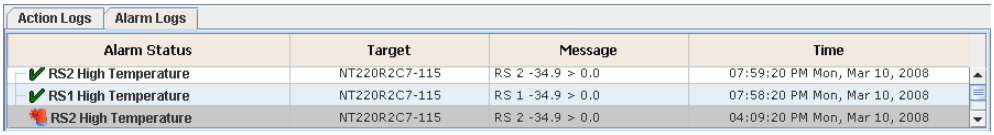


Table 5-6 describes the system-wide **Alarm Log** fields.

Table 5-6 Alarm Log - System-Wide Fields

Field	Displays...
Alarm Status	The type of alarm that occurred along with the color of the severity. ■ If the icon is red or yellow, the alarm has been set. ■ If the icon is green, the alarm has been cleared.
Target	The device or system element that generated the alarm.
Message	Additional information about the alarm. **Note:** For temperature/Humidity related alarms, alarm thresholds and actual readings may be displayed.
Time	The date and time the alarm occurred or was cleared.

Click an alarm to select the alarm. If the alarm has a valid target then when you right-click the alarm a Visit Node menu item appears. Select this menu item and the device or folder associated with the alarm is selected.

Viewing all Alarms in the Folder Tree

To display all the alarmed devices in the folder tree, click the icon beneath the **System Summary** tab.

Managing the License Subscription

You can view and update the license subscription. For information about the license subscription, see Licensing (page 1-6).

For more information about viewing and updating the license subscription, see the following sections:

- Viewing the License Subscription (page 5-35)
- Updating the License Subscription (page 5-36)

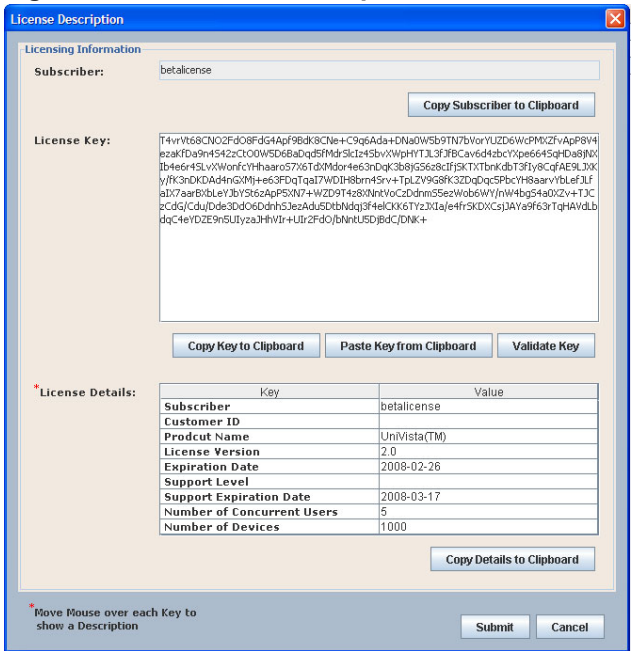
Viewing the License Subscription

To view the license subscription:

1. Log in as an admin, manager, or user.
2. Click the **Administration** management tab.
3. From the main menu, select **System** => **License Subscription**.

   The **License Description** window appears and displays the license details. See Figure 5-31.

Figure 5-31 License Description



Updating the License Subscription

Note

*Only the **Administrator** can update the license.*

To update the license subscription:

1. Log in as an admin.
2. Click the **Administration** management tab.
3. From the main menu, select **System** => **License Subscription**.

   The **License Description** window appears. See Figure 5-31 on page 5-35.
4. Enter the new **License Key**.
5. Click **Submit**.

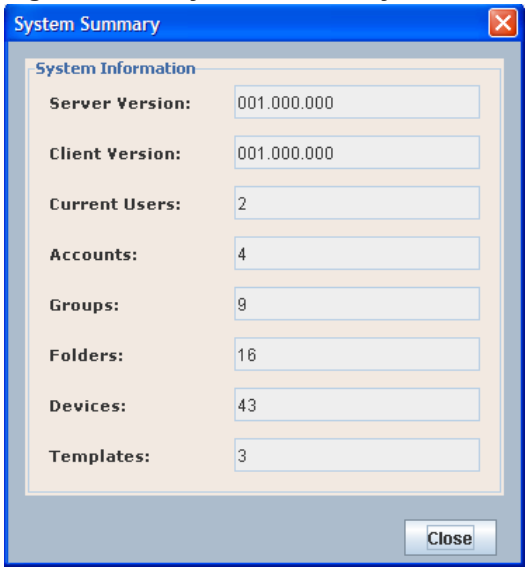
Viewing System Information

To view the system information, for example, the number of accounts, users, and devices:

1. Click the **Administration** management tab.
2. From the main menu, select **System** => **System Summary**.

   The **System Summary** window appears and displays the system information. See Figure 5-32.

Figure 5-32 System Summary Window



3. Click **Close**.

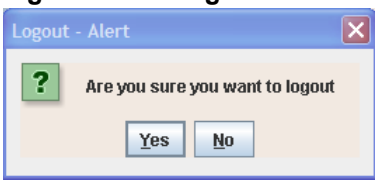
Logging Out of UniVista

To end your current session:

1 From the main menu, click **Logout**.

The **Logout-Alert** window appears. See Figure 5-33.

Figure 5-33 Logout - Alert Window



2 Click **Yes** to end your current session or **No** to cancel the logout.

The system ends your session and returns you to the UniVista **Login window**. See Figure 2-2 on page 2-2.

Appendix A

Configuration Worksheet

Use the following worksheet to record configuration information including the device name and admin password for each device.

	Device Name	Admin Password	Direct/Firewall IP Address	Direct/Firewall Port	Description
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☐					

	Device Name	Admin Password	Direct/Firewall IP Address	Direct/Firewall Port	Description
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